

COMMONWEALTH OF VIRGINIA

PPEA Proposal

NORTHERN FORENSICS / OCME FACILITY

Submitted By: Scheer Partners

August 4, 2005



 **Scheer Partners**

A Reputation for Results



VIRGINIA Bio-TECHNOLOGY
RESEARCH PARK



MCKINNEY AND COMPANY
planning • design • construction



TROUTMAN SANDERS LLP
ATTORNEYS AT LAW

August 4, 2005

Dr. Paul B. Ferrara, Ph D.
Department of Forensic Science
700 North Fifth Street
Richmond, VA 23219

Re: Unsolicited Phase I PPEA Proposal
Northern Forensics / OCME Facility

Dear Dr. Ferrara,

Scheer Partners Inc. is pleased to submit an unsolicited proposal in compliance with the Public Private Education Facilities and Infrastructure Act of 2002 (PPEA) for the construction of the Northern Forensics / OCME Facility in Prince William County, Virginia. Our proposal is comprehensive and follows the suggested format for phase one submission put forth in the PPEA procedure guidelines.

Scheer Partners has put together a *Virginia based* team of highly qualified and experienced professionals specifically chosen for their experience in developing, financing, designing, and building forensic science and laboratory facilities utilizing the complex PPEA public-private delivery approach. Our forensic science design consultant, MWL Architects led by Bill Lawrie, has assisted the Virginia Department of Forensic Science in the design of three facilities – Richmond, Roanoke, and Tidewater – and is intimately familiar with the Department's expectations and requirements. Our builder, DPR Construction, Inc., is one of the country's premier laboratory constructors and maintains an extensive data base of cost and delivery factors that effect the construction and delivery of sophisticated laboratory facilities. This is evident by the thoroughness of our conceptual construction estimate included in Appendix B.

The proposed ownership, the Virginia Biotechnology Research Park Authority led by Bob Skunda, is a proven entity in the Commonwealth for delivering tax exempt bond financing. This is evident by a number of recent projects in the Commonwealth including the Richmond Department of Forensic Science / OCME (Biotech Two) and the Division of Consolidated Laboratory Services (Biotech Six).

Appendix B of our proposal contains a detailed development budget and financing plan. This section is *confidential* and not for public use. Enclosed under a separate cover is Scheer Partners and DPR Construction's financial statement which is also *confidential* as well as financials for the Virginia BioTechnology Research Park Authority and a check payable to the Department of Forensic Sciences for \$5,000 as required by the PPEA procedures.

On behalf of the entire Scheer Partners Inc. team, I appreciate the opportunity to present our proposal for your consideration. We look forward to meeting with you to discuss the project in more detail. I can be reached at 703-288-2713 or hdiebler@scheerpartners.com.

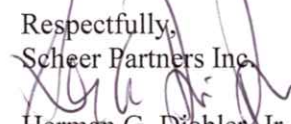
Respectfully,

Scheer Partners Inc.
Herman G. Diebler, Jr.
Senior Vice President

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Appendix A: Team Resumes and Experience

Scheer Partners
McKinney and Company
 DGS-30-004 (A/E 1-6 Forms)
McClaren, Wilson & Lawrie, Inc.
DPR Construction, Inc.
 DGS-30-168 and 172 Forms
Troutman Sanders LLP

Appendix B: Financing (Confidential)

- I. Project Financing
 - a) Estimating Methodology / Development Budget
 - b) Financing Plan / Rent Schedules
 - c) Assumptions
 - d) Risk Factors
 - e) Requested Resources
 - f) Project Schedule
- II. Rent Amortization Schedules
 - a) Non-Capitalized Interest
 - b) Capitalized Interest
- III. Detailed Construction Budget

Executive Summary



BACKGROUND

The Northern Virginia Department of Forensic Science / Office of Chief Medical Examiner (DFS/OCME) occupies an approximately 15,000 s.f. building on Braddock Road in Fairfax, Virginia. The current facility is overcrowded, and unable to keep up with the demand, its space severely limits the Division's ability to embrace additional technology and increase staff. This is a particular concern given Northern Virginia's locational risk in the event of a terrorist attack in the post 9/11 world. The DFS/OCME commissioned a study in 2003 to determine the programming requirements to construct a new facility to house the Northern Virginia DFS/OCME. It was determined that the DFS/OCME would require a facility of approximately 106,000 square feet. The existing Braddock Road site cannot support an expansion of this magnitude. The Commonwealth has appropriated funds for the DFS/OCME to purchase approximately 10 acres of land in Prince William County for the construction of a new Northern Virginia DFS/OCME. A search for an appropriate site is now underway. Scheer Partners, Inc. (SPI) is submitting an Unsolicited Proposal under the terms of the Public-Private Education Facilities and Infrastructure Act of 2002 (PPEA) to build and lease a Northern Virginia facility to the DFS/OCME.

SCOPE

Scheer Partners, Inc. (SPI) plans to construct a new facility of approximately 106,000 s.f. to house the Northern Virginia DFS/OCME in Prince William County, Virginia. The new facility will be owned and financed by the Virginia Biotechnology Research Park Authority through the use of fixed rate, tax-exempt bonds. SPI will manage the development process and the design/construction process on behalf of the Virginia Biotechnology Research Park Authority. The new facility will include approximately 60,000 s.f. for the DFS, 26,000 s.f. for the OCME, and 16,000 s.f. for shared services including training and conferencing. The DFS build-out will include administration, firearms, evidence storage, forensic biology, trace evidence, latent prints, toxicology, and controlled substance labs. The OCME will include administration, autopsy, cadaver storage, photography/X-ray, storage freezers, and funeral home reception/waiting room. Our program assumes a ten-acre site in Prince William County in or immediately adjacent to INNOVATION @ Prince William County.

OWNERSHIP/FINANCING

SPI will construct the facility on behalf of the Virginia Biotechnology Research Park Authority which will own the facility and lease it to the DFS/OCME for a period of twenty years. The facility development and construction will be financed through the use of fixed-rate, tax-exempt bonds. The bonds will be secured by a "subject to appropriation" lease to the DFS/OCME or another state agency. The bonds will be self-amortizing over a twenty (20) year period. The Virginia Biotechnology Research Park Authority, through a bond trustee, will administer the disbursement of the bond proceeds to pay the costs of the Qualifying Project, as development of the Qualifying Project progresses.

TEAM

SPI has put together a team of professionals that is uniquely and truly qualified to deliver a project with demanding laboratory scope requirements and a complex public-private delivery approach. Our team members have designed and built literally dozens of laboratory projects from BSL-2 to BSL-4 facilities. Our lab planner architect, MWL Architects, has led the design of over 60 forensic science laboratories. Our team members have also been pioneers in the successful delivery of projects utilizing the PPEA Act of 2002. Additionally, **100% of our team is Virginia based!** We are:

Virginia Biotechnology Research Park Authority will be the ownership and financing entity for the facility. The Virginia Biotechnology Research Park Authority manages the Virginia Bio-Technology Research Park in Richmond and, along with McKinney and Company, developed and built the Virginia Division of Consolidated Laboratory Services (DCLS) facility in a similar "financing lease" arrangement.

Scheer Partners, Inc. (SPI) will serve as Developer and Project Manager. As such, SPI will be responsible for managing the design, finance, and construction aspects of the project. SPI distinguishes itself from other real estate firms by our proven track record of delivering highly complex technical facilities. We are not newcomers to the life science real estate market. The Company has been representing the real estate needs of bioscience clients for well over 15 years. Our commitment to promoting the growth of the life science industry is evidenced by the composition of our senior advisory team, which includes personnel with bench research experience as well as technical design and construction of life science facilities. This end-user perspective is unmatched by any of our competitors. We are currently developing a 100,000 s.f. biotech manufacturing facility in INNOVATION @ Prince William County for Mediatech, and we have represented numerous highly visible life science companies in the Washington, D.C. area, including Medimmune and Human Genome Sciences on their respective campus developments.

McKinney and Company will serve as the principal designer. Founded in 1979, McKinney is a leader in the fields of industrial, high technology manufacturing, laboratory and distribution facility design. The firm offers a variety of experience in the design of life science laboratories ranging from the 194,500 SF Virginia Division of Consolidated Laboratory Services (DCLS) facility in the Virginia Biotechnology Research Park to a \$40 million Arthropod Rearing and Eradication Facility lab for the USDA in Pacora, Panama. McKinney and SPI are currently partnered together on the Danville Cyber Park Research Facility, a speculative laboratory research facility development in Danville, Virginia.

McClaren, Wilson & Lawrie (MWL) is the team's forensic laboratory consultant. MWL has led the programming and design efforts for over 60 forensic science laboratories, medical examiners facilities and police ID laboratories, of which over 30 are either built or under construction. MWL experience includes all three of the Virginia Division of Forensic Science Laboratories and Chief Medical Examiner Facilities, including the western Roanoke facility, the Central Richmond laboratory and the Tidewater facility in Norfolk. Having worked closely with the Virginia DFS/OCME on their Richmond and Roanoke facilities, Bill Lowrie has an intimate working knowledge of the project's needs and challenges.

DPR Construction, Inc. will serve as general contractor. DPR is a \$1 billion per year national construction firm with ten offices across the country, including offices in Fairfax and Richmond. Founded in 1990, DPR has built technically demanding projects in such high-growth industries as mission critical (data/telecom), high-end corporate, biotech/pharmaceutical, healthcare, semiconductors, entertainment, and warehouse/distribution. DPR has experience working within the Commonwealth's PPEA program. In December of 2002 DPR submitted an unsolicited proposal for the renovation and expansion of Capitol Square under the PPEA legislation and was awarded this project in March of 2003. This project was the first one for the Commonwealth under this legislation. Phase I of this project is approximately \$33,000,000. In the partnership with the Commonwealth, this represented about \$3,000,000

under their budget with added scope and a construction schedule approximately five months faster. This partnership also has an aggressive Small Business, Women and Minority (SWAM) requirement.

Troutman Sanders LLP will provide all legal, financial, and government affairs services for the project. The firm has extensive expertise and experience in assisting governmental and private entities involved in public-private partnerships. The firm has been involved in several major projects brought under the PPEA and its predecessor, the Public-Private Transportation Act (PPTA). Troutman Sanders participated in the development of a PPEA proposal for the improvement of Capitol Square and the surrounding buildings in Richmond, Virginia; the Virginia Information Technologies IT Consolidation Project; the PPEA Proposals for the construction and operation of Virginia's next two Tier 3 Correctional Facilities and in a variety of other PPEA projects throughout the Commonwealth. Troutman Sanders also has served as privatization counsel to the Commonwealth's Department of Transportation in connection with public-private transportation partnerships, including the issuance of more than \$350 million of bonds to finance the Pocahontas Parkway (Route 895), and more than \$21 million of bonds to finance the Chesapeake Expressway (Route 168).

Morgan Keegan will serve as the bond underwriters to the Virginia Bio-Technology Research Park Authority. Morgan Keegan is a full-service regional investment banking and securities brokerage firm providing municipal investment banking and municipal bond underwriting services. Originally incorporated in 1969 and headquartered in Memphis, Tennessee, Morgan Keegan became a wholly owned subsidiary of Regions Financial Corporation in April 2001. Regions Financial Corporation is a financial holdings company headquartered in Birmingham, Alabama. In July of 2004, Regions and Union Planters Corp. merged, creating the twelfth largest bank holding company in terms of deposits. The new company is known as Regions Financial Corporation, has 5.1 million customers, more than \$81 billion in assets, and over 1,400 banking offices in 18 states.

With over 35 years in the financial services industry, Morgan Keegan currently employs over 3,000 people in 226 offices serving approximately 300,000 clients. Morgan Keegan operates throughout 18 states, of which 14 are located in the Southeastern and South Central states. Morgan Keegan's Richmond office employs 42 individuals. Morgan Keegan has been ranked as the number one underwriter of bonds in Virginia by Thompson Financial since 2002 and was ranked tenth in the nation for the first quarter of 2005. The firm has been involved in a number of PPEA and PPTA projects in Virginia serving as both Financial Advisor and Underwriter.

CREDIBILITY

The SPI team brings together a highly credible team with a realistic approach and budget. Our extensive experience in the life science industry coupled with our team members' successful implementation of the PPEA process gives us the confidence to put forth a proposal, budget, and delivery schedule that is aggressive, realistic, and achievable.

I. Qualifications and Experience

Organization

- 1a. Identify the legal structure of the firm or consortium of firms making the proposal. Identify the organizational structure for the project, the management approach and how each partner and major subcontractor (\$1 million or more) in the structure fits into the overall team. All members of the operator/offertory's team, including major subcontractors known to the proposer must be identified at the time a proposal is submitted for the Conceptual Stage. Identified team member, including major subcontractors (over \$5 million), may not be substituted or replaced once a project is approved and comprehensive agreement entered into, without the written approval of the Commonwealth. Include the status of the Virginia license of each partner, proposer, contractor, and major subcontractor.

OWNER



SPI will construct the facility on behalf of the Virginia Biotechnology Research Park Authority who will own the facility and lease it to the DFS/OCME. The Virginia Biotechnology Research Park Authority ("Authority") is a political subdivision of the Commonwealth of Virginia created by Chapter 946 of the 1993 Virginia Acts of Assembly (the "Act"). The Authority has the power, among others, to plan, develop, construct and equip projects and to fix rents and fees and to issue bonds for qualifying projects.

The Act created the Authority to (1) disseminate knowledge pertaining to scientific and technological research and development among public and private entities, including but not limited to knowledge in the area of biotechnology; and (2) promote industrial and economic development.

The Authority is governed by a nine-member board of directors consisting of the President of Virginia Commonwealth University ("VCU"), the Mayor of the City of Richmond (or his designee), the Virginia Secretary of Commerce and Trade (or his designee) and six members appointed by the Governor of the Commonwealth from a list of nominees submitted by the Virginia Biotechnology Research Park (the "Corporation").

DEVELOPER



Scheer Partners Inc. (SPI) will serve as Developer and Project Manager. As such, SPI will be responsible for managing the design, finance, and construction aspects of the project. SPI distinguishes itself from other real estate firms by our proven track record of delivering highly complex technical facilities. We are not newcomers to the life science real estate market. The Company has been representing the real estate needs of bioscience clients for well over 15 years. Our abilities are evidenced by the composition of our senior advisory team, which includes personnel with bench research experience as well as technical design and construction of life science facilities. This end-user perspective is unmatched by any of our competitors.

SPI VA Brokers License #: 0226007973

DESIGNER



McKinney and Company (McKinney) will serve as the principal designer. McKinney is a Virginia C Corporation, and has a current Virginia business license (#0448301-2) for architecture, professional engineering and landscape architecture. Founded in 1979, McKinney is a leader in the fields of industrial, high technology manufacturing, laboratory and distribution facility design. The firm offers a variety of experience in the design of life science laboratories ranging from the 194,500 SF Division of Consolidated Laboratory Services (DCLS) facility in the Virginia Biotechnology Research Park to a \$40 million Arthropod Rearing and Eradication Facility lab for the USDA in Pacora, Panama.

FORENSIC CONSULTANT



McKinney has engaged McClaren, Wilson & Lawrie (MWL) as the team's forensic laboratory consultant. MWL has led the programming and design efforts for over 60 forensic science laboratories, medical examiners facilities and police ID laboratories, of which over 30 are either built or under construction. MWL experience includes all three of the Virginia Division of Forensic Science Laboratories and Chief Medical Examiner Facilities, including the western Roanoke facility, the Central Richmond laboratory and the Tidewater facility in Norfolk.

GENERAL CONTRACTOR:



DPR Construction, Inc. will serve as general contractor. DPR is a national construction firm with 10 offices across the country, including offices in Fairfax and Richmond. Founded in 1990, DPR has built technically demanding projects in such high-growth industries as mission critical (data/telecom), high-end corporate, biotech/pharmaceutical, healthcare, semiconductors, entertainment, and warehouse/distribution.

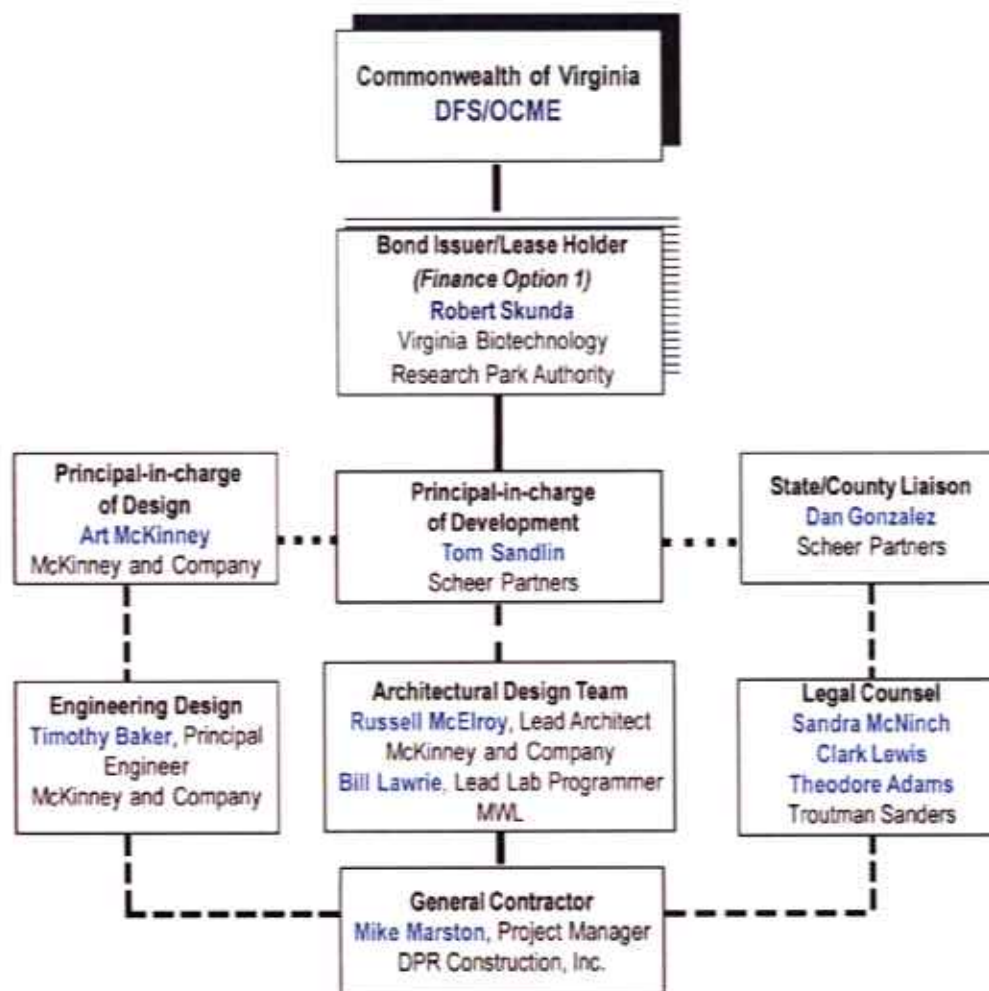
Virginia License: 2705 035043A

LEGAL COUNSEL



Troutman Sanders LLP will provide all legal, financial, and government affairs services for the project. The firm has extensive expertise and experience in assisting governmental and private entities involved in public-private partnerships.

DFS/OCME Project Organization
PPEA Conceptual Proposal for Northern Virginia Forensics Laboratory



Experience

- 1 b. Describe the experience of the firm or consortium of firms making the proposal and the key principals involved in the proposed project including experience with projects of comparable size and complexity. Describe length of time in business, business experience, public sector experience and other engagements of the firm or consortium of firms. Describe the past safety performance record and current safety capabilities of the firm or consortium of firms. Describe the past technical performance history on recent projects of comparable size and complexity, including disclosure of any firms that will provide design, construction and completion guarantees and warranties and a description of such guarantees and warranties.

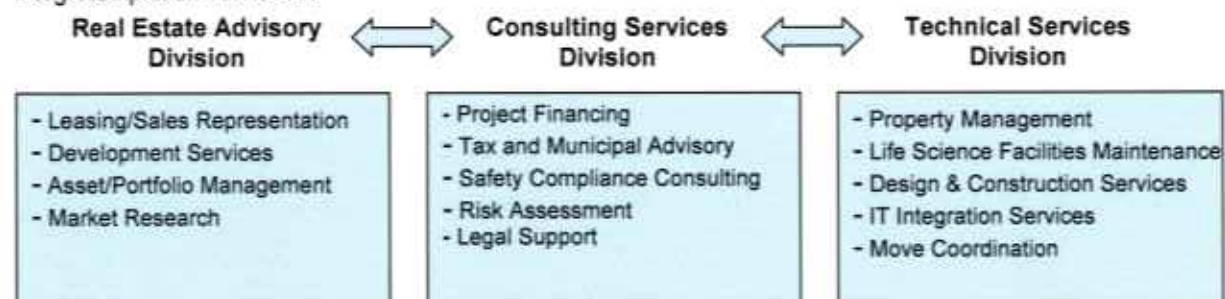
DEVELOPER

Scheer Partners, Inc.

SPI, Inc. is a highly successful commercial real estate, development, and construction management firm. Formed in 1991, SPI is one of the most active commercial real estate services firm in the Mid Atlantic and routinely receives local and national recognition for its work. SPI and its team of experts have advised and represented clients in the development, construction, sales/acquisition and leasing of approximately 32 Million square feet with an estimated cumulative value of over \$5 Billion. SPI's offices are located in Rockville, MD, Greenbelt, MD and McLean, VA.

SPI is recognized for our ability to solve complex life science and federal facilities issues. The seamless integration of our core disciplines is designed to provide a broad range of resources tailored to achieve the strategic real estate objectives of our clients. SPI is unique among real estate advisory and development firms in that our real estate team brings senior level personnel with expertise in numerous types of real estate transactions, facility acquisitions and investment, financial modelling, market analysis, site and facility programming, construction, property and facility management and maintenance.

With our multi disciplined staff, SPI is able to provide unparalleled real estate services to its client base. The repeat nature of the vast majority of our business reflects our commitment to results and the satisfaction of our clients. Our integrated platform includes:



Examples of some complex real estate transactions that SPI has overseen in the past 12 months include:

- Sale of Human Genome Science's 280K square foot research and manufacturing facility, Rockville, MD and subsequent lease to National Institute of Health and Cannon Life Sciences.
- Development of Media Tech's 100K square foot cGMP manufacturing facility in INNOVATION @ Prince William, Manassas, VA.

- Repositioning and sale of Tech Park 270, 182K square foot multi tenant life science facility purchased by Scheer Partner's Investment Group in 2002.
- Master plan and development of 8 acre, 100K square foot technology park in Fredericksburg, VA
- Redevelopment and sale of Pulsecom Headquarters, Herndon VA, 140K s.f. research and development of circuit board manufacturing plant.

Key Principals – Scheer Partners

For complete resumes on our SPI team members, please refer to Appendix A



Tom Sandlin – Executive Vice President, will be serve as **Principal-in-charge of Development**. Tom has over 20 years experience in the commercial real estate business and has planned and developed over 4,000,000 square feet. Tom is currently overseeing the development of 100,000 s.f. life science manufacturing facility in INNOVATION @ Prince William County. Notable project include:

- MediaTech, 100,000 s.f. cGMP Manufacturing Facility, Manassas, VA
- MCI, 800,000 s.f. Corporate and Technology Headquarters, Ashburn, VA
- Westpark, 100,000 s.f. Technology Park, Fredericksburg, VA
- Rowe, 450K s.f. Technology Park, Roanoke, VA



Dan Gonzalez, Executive Vice President, will serve as **State/County Liaison**. Dan has deep ties to the technology sector and local and state government. Dan represents his clients in negotiating state and local incentive packages and recently helped MediaTech secure one of the most competitive incentive packages in Virginia. Dan is on the board of Northern Virginia Technology Council, Virginia Biotechnology Association, Governor Warner's Biotechnology and Nanotechnology Advisory Committee. Notable projects include:

- MediaTech 100,000 s.f. cGMP Manufacturing Facility
- RonBotics, 80,000 s.f. Build to Suit R & D robotics manufacturing center, INNOVATION @ Prince William County, Manassas VA
- SEIMANS, 80,000 s.f. Build to Suit data center, Reston, VA



Herman Diebler, Senior Vice President Consulting Services, will serve as **Design and Preconstruction Manager**. He will be responsible for coordinating design and construction activities. Herman has more than 18 years of experience in management of technically challenging projects. His experience includes, research laboratories, vivariums, corporate and cGMP manufacturing facilities. Notable projects include:

- 125K s.f. The Institute for Genomic Research, Rockville, MD
- 12K s.f. IOMAI cGMP Manufacturing Facility, Gaithersburg, MD
- 40K s.f. Cyber Park Life Science Research Facility, Danville, VA



Wayne Klotz, Senior Vice President Development Services, will serve as **Construction Manager**. Wayne will manage the construction of the site and building shell. Wayne has over 25 years of development and construction experience. Notable projects include:

- 850K s.f. Hewlett Packard manufacturing facility
- 90K s.f. Hitachi Data Systems manufacturing facility
- 650K s.f. Ingram Micro distribution facility

DESIGN TEAM

McKinney and Company

McKinney and Company is headquartered in Ashland, 15 minutes north of Virginia's capital city of Richmond. The firm has an additional office in the Busch Corporate Center of Williamsburg, Virginia. Formed as a Virginia partnership in 1979, McKinney and Company incorporated in 1995 as a privately held corporation. The firm is not a subsidiary or affiliate of any other organization, and currently employs 83 people. The firm's international subsidiary, McKinney Internacional, was formed in 1999 and is located in Panama City, Republic of Panama.

McKinney and Company plans, designs, and manages the development of approximately three million square feet of commercial and industrial construction annually. The needs of the firm's clients range from logistics, clean room manufacturing, biological and chemical containment to other high technology applications for manufacturing, life science and information technology facilities. The wide range of the clients McKinney serves requires the staff to remain flexible and on the leading edge of new technologies that influence the planning, design and construction of their advanced facilities. A broad understanding of the client's own business processes is the cornerstone for professional staff development. McKinney engineers, architects and planners develop realistic design solutions to complex problems.

Life Science Laboratory Design Experience

Recent projects of McKinney and Company include the following:

- **Virginia Biotechnology Research Park Authority, Division of Consolidated Laboratory Services (DCLS),** Richmond, Virginia – Lead Design and Project Architect for 194,500 SF, 5 story, state-of-the-art laboratory, including BSL-3 and 4 containment labs.
- **VCU Bio-Safety Laboratory (BSL-3) Renovation,** Richmond, Virginia - Lead Architect responsible for design, construction documentation, and construction administration of this laboratory space renovation.
- **USDA/Panama Arthropod Rearing/Eradication Facility,** Pacora, Panama – Lead Laboratory Planner responsible for design of primary bio-containment barrier and laboratory spaces for this \$40 million international project.
- **Danville Research Building,** Danville, Virginia - Lead architect for the Danville Research Building, Phase I facility of a larger 20-acre campus of the Danville Cyber Park.



Key Principals—McKinney and Company

For complete resumes on our McKinney team members, please refer to Appendix A.



Arthur W. McKinney, P.E. SE, FACEC, will serve as the **Principal-in-charge** of architectural and engineering design. As Principal-in-charge for the new Virginia Division of Consolidated Laboratory Services, Art provided key support to the State of Virginia, the Virginia Biotechnology Research Park and the City of Richmond in planning, designing, financing and construction of the Project. Art has 39 years of continuous experience in design and construction. He is a licensed Professional Engineer in Virginia and other states. In 1979 Art founded McKinney and Company, a professional services company providing planning, architecture, engineering, construction management and quality assurance. Art has overseen the growth of the company into the design of high technology manufacturing of life sciences.

Art provides Senior Principal level support and assists in the overall organization and control of the total project delivery system. Art's interest and experience in the high technology workplace, logistics in a global market and industrial and manufacturing systems, provides him with insight for fully integrating planning and design with construction means, methods and materials, together with contract and procurement methodologies; all to achieve overall project goals for quality, cost and schedule.

Art is recognized for his technical work in the design and construction of building systems in manufacturing and industrial applications. He has contributed to the design of over 100,000,000 square feet of large-scale manufacturing, industrial and commercial facilities. This includes general and special experience in structures, facility layout and design, special manufacturing systems, laboratories, refrigerated buildings, corrosive materials handling, explosion, chemical and biological containment and materials handling systems.



Russell McElroy, AIA, NCARB, will serve as the **Prime Architect** for the project. Russell is a Life Science Architect with more than 13 years of diversified experience as an architect focused on services requiring a high level of coordination between the building and its interior program. He is responsible for schematic design through project completion. Russell's broad experience also includes structures involving processes that must deal with large quantities of hazardous chemicals, cold rooms and clean rooms.



Timothy Baker, PE., CIPE, LEED™, will serve as the **Principal Engineer** for the project. Tim is joining McKinney and Company in July 2005. A Mechanical Engineer, he is a nationally recognized expert in the design of pharmaceutical, academic and federal laboratories. In the past decade, Tim has completed wet laboratory designs for more than 3.7 million s.f. in 19 separate projects. He will continue in his role as the sponsor for McKinney's biology, molecular biology, chemistry, air toxicology, bio-hazard, barrier containment, and forensic laboratory designs.

FORENSIC CONSULTANT **McClaren, Wilson & Lawrie**

The team's forensics laboratory consultant will be Bill Lawrie of the firm McClaren, Wilson & Lawrie. Lawrie specializes in the programming, planning and design of public safety architecture, including Law Enforcement, Forensic Science, and Forensic Pathology Facilities. With over 100 police stations and more than 60 crime labs/medical examiner facilities coast-to-coast, including Forensic Science laboratories and Medical Examiner facilities in 23 different states, no consultant in North America offers more proven experience (*See a complete listing in Appendix A along with details of specific projects*). Their work has consistently pioneered humane, technologically savvy, biologically protected and environmentally sensitive, architectural concepts.

McClaren, Wilson & Lawrie served as specialists in the programming and design of the following key projects:

- **Division of Forensic Science Central Laboratory: Chief Medical Examiner's Facility & State Anatomical Program**
Biotech Two/Virginia Biotechnology Research Park, Richmond, Virginia
141,500 SF full-service laboratory, including administration, DNA/serology, trace evidence, chemistry/drug analysis, forensic toxicology, firearms, latent prints, questioned documents, forensic photography, breath alcohol, security and evidence; facility serves as administrative headquarters and Virginia Academy of Forensic Science
- **Virginia Division of Forensic Science: Western Regional Forensic Science Laboratory & Medical Examiner Facility, Roanoke, Virginia**
56,000 SF full-service laboratories serving western part of the State
- **Laboratory Division-Federal Bureau of Investigation, United States Department of Justice, Quantico, Virginia**
506,800 SF state-of-the-art facilities to replace the current J. Edgar Hoover headquarters facility in Washington, D.C.
- **Tidewater Regional Forensic Science Laboratory & Medical Examiner Facility**
Division of Forensic Science of the Commonwealth of Virginia, Norfolk, Virginia
56,000 SF lab serving as the first crime laboratory to be provided for the examination of DNA evidence



Key Principals-- McClaren, Wilson & Lawrie

For complete resumes on MWL team members, please refer to Appendix A.



Willis Patten Lawrie, AIA of McClaren, Wilson and Lawrie, Inc. will serve as the **Lead Forensics Lab Programmer** for the team. Bill offers programming and design experience from over 60 forensic science laboratories, medical examiner facilities and police ID laboratories, of which over 30 are built or under construction. His extensive database of program and technical information as well as cost

data of recently built public safety facilities throughout the U.S. and in Virginia will be instrumental in the programming and design for the State forensics laboratory project. His experience includes all three facilities of the Virginia Division of Forensic Science Laboratories and the Virginia Office of the Chief Medical Examiner Facilities.

GENERAL CONTRACTOR

DPR Construction, Inc.

DPR's Stated Purpose: *We exist to build great things.* A national builder with local capabilities, DPR has been "building great things" since it was founded in 1990 in such high-growth industries as mission critical (data/telecom), high-end corporate, biotech/ pharmaceutical, healthcare, semiconductors, entertainment, and warehouse/distribution.

The company has grown to more than \$900 million in annual revenue in 2004 and 10 offices, as well as being recognized for its unique collaborative approach in both local and national markets. Founded by Doug Woods, Peter Nosler, and Ron Davidowski (a.k.a. "the initials" or D, P, and R), the company currently employs more than 800 professional staff and 1,000 crafts persons. DPR has an office in Fairfax that serves the Mid-Atlantic region. This office employs over 70 professional staff and 150 craftspeople. The majority of their staff is made up of experienced local talent drawn to DPR's distinctive corporate culture and innovative approach to construction. Their advanced information systems and internal databases give everyone ready access to knowledge gained from projects all over the country.

DPR brings a technically focused approach to this project. They are focused on anticipating construction issues up front, developing realistic schedules, and building strong working relationships. Their flexibility and responsiveness has made them a preferred alternative among local design firms, who know they are invested in working collaboratively to achieve owner objectives. They measure their success by exceeding owner expectations, surveying customer satisfaction, and using aggressive performance standards to measure estimating accuracy, safety, scheduling, zero punch lists, and project closeout.

- In 2004, DPR the AGC Metropolitan Washington DC chapter awarded DPR the "Washington Contractor Merit Award" for the United States Green Building Council's 9th floor renovation project.
- DPR received two ABC awards for Construction Excellence in 2004. One was awarded for the United States Green Building Council and the second was for Computer Sciences Corporation.
- #15. Rank locally in Virginia Business's 2004 List of Leaders: Largest General Contractors.
- #29. Rank nationally in ENR's Top 400 General Contractors in 2004.
- At .29, DPR has the lowest EMR in the Mid-Atlantic region and in the country. Since 2000, the ABC Metro Washington chapter has twice awarded DPR the "Certificate for Recognition of Safety Excellence."

DPR has experience working within the Commonwealth's PPEA program. On December of 2002 DPR submitted an unsolicited proposal for the renovation an expansion of Capitol Square under the PPEA legislation and was awarded this project in March of 2003. This project was the first one for the Commonwealth under this legislation. Phase I of this project is approximately \$33,000,000. In the partnership with the Commonwealth, this represented about \$3,000,000 under their budget with added scope and a construction schedule approximately 5 months faster. This partnership also has an aggressive Small Women and Minority (SWAM) requirement.

DPR EMR

Last Five Years

Year	EMR
2004	.29
2003	.32
2002	.33
2001	.33
2000	.35

Key Principals—DPR Construction, Inc.



Mike White, Project Executive will be an active participant in steering preconstruction efforts, and will provide onsite top management involvement and commitment throughout the project. During construction, he will provide continuous operational guidance of critical path items and will ensure that appropriate resources are made available to the project team. Mike has a strong MEP engineering background which is essential in successful lab construction.



Mike Marston, Senior Project Manager, a very experienced laboratory builder, will be responsible for coordinating design and construction team activities, and will be the **primary contact** for all construction matters. To protect the financial interests of both the owner and DPR, he will work closely with the preconstruction team to ensure cost and quality control throughout the project.



Flip Salyer, General Superintendent will be the **full-time onsite primary field manager** for jobsite activities, including the direction and coordination of all subcontractors, DPR craftsmen and vendors. Experienced in a wide variety of construction fields, he is adept at solving problems and keeping projects on schedule. He will be on the jobsite at all times for hands-on project supervision and will be available to dedicate 100% of his time to the project.



Jeff Smith, Area Superintendent will focus will be directed toward the buildings interiors and lab fit-out work. He will assist Flip with subcontractor management, safety, scheduling, and all other aspects of field management.



Joseph Khoury, Project Manager will provide key field support to ensure that materials are on hand as ordered to avoid any delays or site bottlenecks. Working closely with Mike Marston, he will provide administrative support for field activities through shop drawings reviews, submittal reviews, and cost engineering.



Chris Gorthy, Lead Estimator is a critical player in the preconstruction phase, providing detailed project cost projections, long-lead procurement advice, purchasing assistance and schedule input. He will also provide detailed takeoffs of available drawings and provide unit costing. During the construction phase he will be responsible for project cost controls and detailed schedule information.

LEGAL COUNSEL

Troutman Sanders

Founded in 1897 in Atlanta, Georgia, and expanding to Richmond, Virginia, in the 1920s, Troutman Sanders is a full-service law firm engaged in virtually every aspect of civil and commercial law. With more than 600 lawyers, it also is one of the largest and most diverse law firms in the Southeastern United States. The firm's public finance attorneys serve as bond counsel to state, regional, and local governments, authorities, commissions, and institutions, and as counsel to issuers, underwriters, banks and other lenders, and corporate trustees and borrowers. The firm also serves as counsel in the financing of transportation, water, sewer, correctional, and other governmental projects, as well as for educational, industrial, solid waste disposal, healthcare, housing, 501c(3) not-for-profit, and mixed use facilities.

The Troutman Sanders Public Affairs Group LLC (TSPAG) subsidiary has been providing government relations and issue management services to corporate clients for more than 25 years. Through a broad array of contacts at the federal, state, and local levels, TSPAG advocates for clients' public policy issues while building better partnerships among governments and business.

The firm has been involved in several major projects brought under the PPEA and its predecessor, the Public-Private Transportation Act (PPTA). Troutman Sanders participated in the development of a PPEA proposal for the improvement of Capitol Square and the surrounding buildings in Richmond, Virginia; the Virginia Information Technologies IT Consolidation Project; the PPEA Proposals for the construction and operation of Virginia's next two Tier 3 Correctional Facilities and in a variety of other PPEA projects throughout the Commonwealth. Troutman Sanders also has served as privatization counsel to the Commonwealth's Department of Transportation in connection with public-private transportation partnerships, including the issuance of more than \$350 million of bonds to finance the Pocahontas Parkway (Route 895), and more than \$21 million of bonds to finance the Chesapeake Expressway (Route 168).

Key Principals—Troutman Sanders

Troutman Sanders proposes the following key personnel for the Northern Virginia Forensic Laboratory Project:



Sandra McNinch, Partner – Ms. McNinch will provide legal counsel on all issues related to the financing of the Northern Virginia Forensic Laboratory Project. She has a primary focus on municipal bonds, securities, and banking. Ms. McNinch has over 15 years of experience in the law of public financing.



Clark H. Lewis, Partner – Mr. Lewis will be the primary contact for all legal issues that relate to the Northern Virginia Forensic Laboratory Project. His recent work on the PPTA and related issues has become a foundation for the development of state-wide PPEA proposals and projects in and around Southside and Southwest Virginia. Mr. Lewis has five years of experience working with projects of comparable size and complexity.



Theodore F. Adams, III, Partner – Mr. Adams is responsible for the management of the Virginia operations of the Troutman Sanders Public Affairs Group. He will coordinate all governmental relations and issue management services for the Northern Virginia Forensic Laboratory Project. He was involved in legislation to amend the PPTA and PPEA and has been involved in the development of PPEA proposals for the renovation of Capitol Square in Richmond and the renovation and improvement of various mental health facilities in the Commonwealth. Mr. Adams has five years of experience working with projects of comparable size.

References

- I c. For each firm or major subcontractor (\$1 million or more) that will be utilized in the project, provide a statement listing all of the firms prior projects and clients for the past 3 years and contact information for same (names/addresses/telephone numbers). If a firm has worked on more than ten (10) projects during this period, it may limit its prior projects list to ten (10), but shall first include all projects similar in scope and size to the proposed project and, second, it shall include as many of its most recent projects as possible. Each firm or major subcontractor shall be required to submit all performance evaluation reports or other documents which are in its possession evaluating the firm's performance during the preceding three years in terms of cost, quality, schedule maintenance, safety and other matters relevant to the successful project development, operation and completion.

SCHEER PARTNERS

A sample of Scheer Partner's relevant experience includes:

MEDIATECH cGMP MANUFACTURING FACILITY

- 103,000 s.f. cGMP manufacturing facility
- Located in INNOVATION @ Prince William County
- Scheer Partners will develop and lease back to Mediatech

Client Contact: James DeOlden, President
13884 Park Center Road
Herndon, VA 20171
703-471-5955



DANVILLE RESEARCH BUILDING

Cyber Park-Danville, Virginia

- 40,000 s.f. laboratory research facility
- Speculative economic development project
- Master Plan of a five-building technology park

Client Contact: M. Lyle Lacy III, Deputy City Manager
P.O. Box 3300
Danville, VA 24543
434-799-5100



HUMAN GENOME SCIENCES, INC.

*Corporate Headquarters and R&D Laboratory
Germantown, MD*

- Corporate Headquarters and R&D Laboratory Campus Development
- Phase I development of 600,000 sq. ft. with total development capacity of 1million sq. ft.



- Human Genome Sciences utilizes genomics and newly discovered genes to discover and develop new pharmaceutical products

Client Contact: Steven Mayer
1000 Darnestown Road
Germantown, MD 20874
301-309-8504

MEDIMMUNE, INC.

*Corporate and R&D Laboratory campus consolidation
Gaithersburg, MD*

- Phase I included the development of 210,000 sq. ft. with expansion capabilities to 750,000 sq. ft.
- Medimmune is focused on using biotechnology to bring innovative products through R&D, manufacturing, and distribution



Client Contact: Wayne Hockmeyer, PhD.
One Medimmune Way
Gaithersburg, MD 20878
301-398-0000

GENE LOGIC

*R&D Laboratory
Gaithersburg, MD*

- 52,000 sq. ft. R&D Laboratory
- The building provided a unique opportunity requiring a renovation/conversion from a Federal Express distribution warehouse to a state-of-the-art R&D laboratory
- Gene Logic is a leading provider of innovative functional genomics information products, services and bioinformatics tools, which focus on human biology and pathology



Client Contact: Philip Rohrer, Jr.
50 W. Watkins Mill Road
Gaithersburg, MD 20878
301-987-1700

AVALON PHARMACEUTICALS

*R&D Laboratory
Germantown, MD*

- 50,000 sq. ft. facility, consisting of R&D laboratory, vivarium, and corporate and administrative functions
- Avalon Pharmaceuticals is discovering novel therapeutics by screening large libraries of small molecule chemicals for their effect on proprietary drug activity markers in multi-parameter disease model systems



Client Contact: Dr. Kenneth Carter
20358 Seneca Meadows Pkwy
Germantown, MD 20874
301-556-9900

HUMAN GENOME SCIENCES, INC.

*Pilot Plant
Rockville, MD*

- 127,000 sq. ft. cGMP pilot scale production plant and 50,000 sq. ft. QC building
- The 30-acre site was acquired to ultimately accommodate expansion for future full-scale manufacturing
- The facility will be used to produce genomics based products developed via HGS's R&D pipeline



Client Contact: Steven Mayer
9910 Belward Campus Drive
Rockville, MD 20850
301-309-8504

ADVANCIS PHARMACEUTICAL CORP.

*Pilot Plant
Germantown, MD*

- 62,000 sq. ft. corporate and administrative office, R&D laboratories, and cGMP manufacturing.
- Advancis Pharmaceutical Corporation is focused on developing and marketing anti-infective therapeutics that improve efficacy and patient compliance, reduce drug resistance and decrease length of therapy



Client Contact: Steven Shallcross
20425 Seneca Meadows Pkwy
Germantown, MD 20876

JOHNS HOPKINS UNIVERSITY

*Laboratory Facility
Rockville, MD*

- Represented Johns Hopkins University in the sale of this 101,000 sq. ft. laboratory facility on the Bayview Campus
- Enabled Johns Hopkins to take this asset "off balance sheet"
- Sold to Wolverine Holding Company for \$21.5 million (\$212psf)



Client Contact: Brian Dembeck
9605 Medical Center Drive
Rockville, MD 20850
301-294-7000

HUMAN GENOME SCIENCES

*Headquarters Facility
Rockville, MD*

- 240,000 sq. ft. campus sale for \$93 million
- State-of-the-art research/corporate headquarters facility, consisting of an 18-acre site with three existing buildings totaling 240,000 sq. ft. and additional development capacity of more than 90,000 sq. ft.
- The disposition organized regional functions, redistributed activities and significantly reduced operating costs.



Client Contact: Steven Mayer
1000 Darnestown Road
Germantown, MD 20874
301-309-8504

In addition, Scheer Partners has worked with numerous life clients both locally and across the country. A sample of those clients includes:

- | | |
|--|---|
| ▪ Advancis Pharmaceutical Corp. | ▪ Johns Hopkins University |
| ▪ Advanced Pharma, Inc. | ▪ Large Scale Proteomics Corporation |
| ▪ A&G Pharmaceuticals, Inc. | ▪ MacroGenics, Inc. |
| ▪ Antex Biologics | ▪ Maryland BIO |
| ▪ Aptus Genomics | ▪ Maryland Technology Development Center |
| ▪ Avalon Pharmaceuticals | ▪ MetaMorphix, Inc. |
| ▪ BARD Life Science Center | ▪ MidWest Research Institute |
| ▪ Baxter Healthcare | ▪ NABI tem, Inc. |
| ▪ BioReliance | ▪ NeuroLogic, Inc. |
| ▪ Biosys, Inc. | ▪ Novartis |
| ▪ Blanchette Rockefeller Neurosciences Institute | ▪ Novavax, Inc. |
| ▪ CATO Research, Ltd. | ▪ Oncolmmunin |
| ▪ Clearant, Inc. | ▪ McKesson HBOC |
| ▪ Coagulation Diagnostics | ▪ PEM Technologies |
| ▪ Covance Laboratories, Inc. | ▪ Pharming Healthcare |
| ▪ Digene, Inc. | ▪ Psychiatric Genomics |
| ▪ Emerging Technology Center | ▪ Qiagen Sciences, Inc. |
| ▪ Endogeny Bio Corporation | ▪ Receptor Biology |
| ▪ Gene Logic | ▪ Sensors for Medicine and Science |
| ▪ Genetic Therapy, Inc. | ▪ Shire Laboratories, Inc. |
| ▪ GenVec, Inc. | ▪ Shire Pharmaceutical Development Corp. |
| ▪ Henry M. Jackson Foundation | ▪ Stemron |
| ▪ Human Genome Sciences, Inc. | ▪ TIGR-The Institute for Genomic Research |
| ▪ Intergen Discovery Products | ▪ University Pharmaceuticals of Maryland |
| ▪ Intracel Corporation | |
| ▪ Intronn, Inc. | |
| ▪ Invitrogen/Life Technologies, Inc. | |
| ▪ Iomai Corporation | |
| ▪ MedImmune, Inc. | |

MCKINNEY AND COMPANY

McKinney and Company has provided consultation and design for a variety of clients including:

VIRGINIA DIVISION OF CONSOLIDATED LABORATORY SERVICES

*Virginia State Laboratory
Richmond, Virginia*

McKinney and Company provided the Virginia Biotechnology Research Park with full service design and contract management for the development of more than 194,000 SF of laboratory space to house the Virginia Division of Consolidated Laboratory Services (DCLS). This vital state laboratory provides analytical testing, consultation, training, quality assurance, and research in support of its mission to protect consumers and the environment. Virginia Commonwealth University and the Medical College of Virginia support the Virginia Biotechnology Research Park.

DCLS offers a wide range of scientific testing to local government, state, federal agencies, hospitals, physicians and other laboratories. Each year, more than 2.5 million tests are provided ranging from octane testing of gasoline to blood specimens from newborn infants. The facility will contain one of only five (5) Biosafety Level 4 (BSL-4) laboratories in the United States.

Client Contact: Robert Skunda
President
Virginia Biotechnology Research Park
800 East Leigh Street
Richmond, Virginia 23219
(804) 828-5390



BOEHRINGER INGELHEIM CHEMICALS, INC.

*Synthesis Support Facility
Petersburg, Virginia*

McKinney and Company provided schematic design services for the Synthesis Support Facility consisting primarily of QC/QA Laboratory space, space for retained samples, general office and meeting space. The site for the Synthesis Building is a wooded site within the existing B.I. Chemicals property, and was incorporated into the overall campus master plan. Basic design services include the creation and validation of program information, meeting with user groups to determine specific needs, field review of existing facilities and utilities, creation of an existing and proposed equipment matrix, schematic floor plans, final construction budget and schedule.



The design of the entire building is based on concepts allowing future east and west expansions. Access is limited to a security checkpoint at the main entrance. QC labs and the Developmental labs were combined into one compatible space with fixed support rooms such as glass storage, weights & measures and ICPMS. Support spaces are centrally located for easy access and to allow expansion to the east and west of the building. The walls of the labs are lined with windows to provide natural light and allow internal viewing into the lab space. Lab furniture was designed to maximize flexibility to accommodate changing sciences. Fume hoods with adjoining 6" utility walls are the only fixed casework. Overhead carriers provided above island benches at building columns are equipped with required electrical, special gas, water, vacuum, and point of use ventilation arms. All utilities to island benches are fed from overhead with

accessible shut-off valves located just outside lab entry doors. Liquid waste lines are the only utility in the floor at every island bench.

Client Contact: Mr. Mark Waddell
B.I. Chemicals, Inc.
2820 North Normandy Dr.
Petersburg, Virginia 23805
(804) 504-8766

BIOTECH 8 - VIRGINIA BIOTECHNOLOGY RESEARCH PARK
Richmond, Virginia

McKinney and Company is providing full-service design of a 25,000 sq. ft. speculative wet-lab ready shell space to be constructed on Navy Hill Drive in the Virginia Biotechnology Research Park campus in downtown Richmond. Important design considerations have included flexibility for future tenants with differing up fit requirements and architectural concerns with respect to other buildings in the Biotechnology Park. Additional services have included geotechnical and environmental reports and detailed scope, schedule, and budget development. The two-story structure will allow infinite expandability and flexibility within the laboratory, clean room, and light office environment with the following design features:



- Grading operations are expected to be relatively minor. The proposed finished floor for the building is 152.80. Underground utility work is required to abandon or demolish an existing sanitary sewer main under the footprint of the proposed building, pending verification from the City.
- A vibration resistant slab-on-grade (six inches of concrete over six inches of compacted stone) is proposed for the first floor. A conventional elevated floor slab (four inches of concrete over metal decking) is proposed for the second floor. Strip and spread footings will form the foundation. A pit for the elevator will be provided.
- Framing for the building will be a conventional structural steel frame using joists, deck, and rolled sections. Stairs, bollards, frames for mechanical equipment, exterior handrail, and ornamental railings will be provided.
- Exterior walls will be concrete masonry units and architectural precast concrete. Architectural metal panels or face brick veneer will be installed as finish materials in some locations.
- A 35,000 lb. capacity mechanical dock leveler has been included in opinions of probable cost.
- The exterior loading dock is accessed by backing in from Navy Hill Drive.
- A two stop hydraulic passenger elevator is proposed to be housed in an enclosure outside of the building footprint.
- A 200 amp shell building electrical service will be provided. A 100kW natural gas powered standby generator is proposed. Freezers and coolers will be connected to this generator, however, its proposed size is not sufficient to operate the entire building in the event of a power failure; therefore, a generator is incorporated into the design.
- Mechanical units will be placed on the roof.

Client Contact: Robert Skunda, President
Virginia Biotechnology Research Park
800 East Leigh Street
Richmond, Virginia 23219
(804) 828-5390

DANVILLE RESEARCH BUILDING

*Cyber Park
Danville, Virginia*

McKinney and Company is currently engaged as the principal firm designing the Danville Research Building, Phase I facility located in the Danville Cyber Park. We have provided programming and schematic site design for multiple life science buildings. The first building to be constructed is approximately 40,000 sq. ft., and is designed to relate to the Institute which is the only existing building on this 20-acre campus.

The Phase I building provides a main entrance to the east and a quadrangle entrance to the west connecting to the Institute. Schematic site grading calls for the terraced parking to follow existing contours reducing visual impact. Low-impact design of storm water management is also incorporated into the site design. The L-shaped building divides the lab wing to the north and the research wing to the south with a common node in the center. The architectural skins build on the vocabulary of materials that are complimentary of the Institute, including masonry exteriors, punched windows and metal curtain wall systems. Windows are designed to bring large amounts of natural light through the building.



Client Contact: Mr. M. Lyle Lacy III
Deputy City Manager - City of Danville
P.O. Box 3300
Danville, Virginia 24543
(434) 799-5100

SOUTHWEST ANIMAL HEALTH RESEARCH FOUNDATION

*USDA Sterile Screwworm Fly Rearing Facility
Pacora, Panama*

This project involves the design and construction of a facility to produce sterile screwworm flies to form a permanent biological barrier across the Isthmus of Panama. A joint venture between the USDA and a Panamanian partner (COPEG), the facility design provides for both an environmentally compatible as well as biologically secure operation.



Located on the site of a former sugar plantation just west of Pacora, Panama, the new Screwworm Rearing Facility includes an array of independent, but interconnected elements. The core of the program is a Production Building capable of producing 100 million sterile flies per week. The Production Building is bio-secure and includes a quality control laboratory, diet storage area, methods development area (for investigations to improve mass rearing), a back-up strain area, a specialized area for long-term scientific research, and other various support functions.

Additional components of the project include: an Administration Building (housing the administrative functions for both United States and Panamanian officials), Utility Building housing major components of the mechanical and electrical systems, renovations to two existing warehouse buildings (one to house water and waste water treatment facilities with laboratory offices and equipment and the second to house general storage, offices for field personnel, toilet/locker facilities-laundry, shop storage and vehicle maintenance), and Security Building (and three separate guarded gates at each entrance to the site). The project includes

not only the design and construction of the facilities, but also associated site work (including clearing, grading, and construction of on-site and off-site roads, security fencing and the installation of utilities).

McKinney is serving as the Architect / Engineer and the Construction Manager for the project. The construction is valued at approximately \$40 million, not including the value of production equipment. Construction started in February 2004; the first phase is scheduled for completion in December 2005.

Client Contact: Mr. Harold C. Hofmann, Ph.D.
Assistant Regional Director
U.S. Department of Agriculture
Unit 0945
APO AA 34002
(507) 232 – 6709

VIRGINIA COMMONWEALTH UNIVERSITY HEALTH SYSTEMS
Richmond, Virginia

Bio-Safety Laboratory BSL-2 to BSL-3 Renovation

McKinney and Company provided full-service design, construction documentation and construction administration for the renovation of this existing laboratory space to a higher level of bio-safety. The renovation of space to BSL-3 level containment includes: casework rework and reuse, containment barrier rework to create a laboratory envelope, specification of all major equipment such as autoclave and bio-safety cabinets, and complete coordination of mechanical, electrical, plumbing and security drawings.

HLA-Tissue Typing Laboratory

McKinney and Company is engaged with VCUHS to review and verify the existing HLA laboratory footprint within McGuire Hall. The scope of the project includes recommendations for the square footage necessary for a functional tissues typing laboratory. The new HLA Laboratory is designed to accommodate sciences such as ELISA, DNA discovery, Serology, radioactive analyses, and flow cytometry. The recommended design provides for more efficient open laboratory with segregated equipment rooms for high heat and noise, appliances, radioactive analytical equipment, and cryogenic storage systems.

Client Contact: Ed Gilikin, Jr. AIA
VCU-FMD/Planning & Design/Design
10801 Colonist Drive
Richmond, Virginia 23233
(804) 828-1912

In addition, McKinney and company has worked successfully with various public sector agencies, authorities, organizations, and municipalities including the following:

- Virginia Economic Development Partnership
- Virginia Biotechnology Research Park
- College of William and Mary
- Virginia Tech
- City of Danville
- Roanoke County
- Bedford County
- Montgomery County
- Caroline County
- Hanover County
- Henrico County
- James City County
- Prince Edward County



DCLS Lab in VBRP



James City County



W&M Lake Matoaka Dam



Biotech 8 in VBRP

MC CLAREN, WILSON & LAWRIE

McClaren, Wilson & Lawrie served as specialists in the programming and design of the following key projects:

DIVISION OF FORENSIC SCIENCE CENTRAL LABORATORY

*Chief Medical Examiner's Facility & State Anatomical Program
Richmond, VA*

McClaren, Wilson & Lawrie, Inc. served as specialists in the programming and design of the Richmond Central Forensic Science Laboratory. This state-of-the-art facility is a full-service laboratory serving the Central Virginia region with a population of 1.7 million. Programs spread throughout three separate overcrowded buildings are consolidated into the new facility. This facility also includes the administrative headquarters for the State's divisional network of forensic science laboratories.



Forensic laboratory sections include administration, DNA/serology (casework analyses and databank work), trace evidence, chemistry/drug analysis, forensic toxicology, firearms, latent prints, questioned documents, forensic photography, breath alcohol, security, and evidence.



The Richmond facility houses the Virginia Academy of Forensic Science, a complete training complex devoted to training in evidence collecting and handling to law enforcement officials throughout the state. The Academy also provides training in emerging forensic examination procedures, in crime scene reconstruction and in administering breath alcohol tests. Other training facilities in the medical examiner facility allow law enforcement officials and medical students to view autopsies being performed.

The Office of the Chief Medical Examiner Facility provides scientific medico-legal investigation of suspicious deaths in the Commonwealth and provides state-wide administrative responsibilities. The medical examiner facility also includes the State anatomical program which provides Virginia's medical schools and clinical research facilities with donated cadavers for education.

Client Contact: Robin Porter
Laboratory Director - Division of Forensic Science
700 North 5th Street
Richmond, VA 23219-1416
(804) 786-2281

DIVISION OF FORENSIC SCIENCE

*Tidewater Regional Forensic Science Laboratory & Medical Examiner Facility
Commonwealth of Virginia
Norfolk, Virginia*



The Tidewater Regional Forensic Science Laboratory set a unique precedent for being the first crime laboratory in the nation, aside from the FBI laboratory, to provide for the examination of DNA evidence. The new laboratory continues DNA testing in a combined DNA/Serology Section, with design flexibility to allow DNA to eventually absorb most of the serology spaces.

The laboratory is owned by the City of Norfolk, is leased to the State of Virginia, and is operated by the Virginia Division of Forensic Services.



The Tidewater Forensic Science Laboratory provides state-of-the-art forensic laboratory services to the Tidewater region of Virginia, which has a population of approximately 1.5 million. It was planned as a full-service laboratory for the Commonwealth's Division of Forensic Science. The Office of the Chief Medical Examiner Facility provides scientific medico-legal investigation of suspicious deaths in the Commonwealth's Tidewater District.

The highly-specialized nature of these laboratory facilities includes unique features such as a PCR room for DNA profiling, evidence examination rooms, 75' firing range for firearms examination, a dusting room for fingerprint identification and body-dissecting stations. All areas where biologicals are handled are specially designed as bio-hazard spaces for the safety of occupants and for the avoidance of contamination of evidential materials.

Client Contact: Robert C. Campbell
Director - Division of Forensic Science
Tidewater Laboratory
Norfolk, VA
(757) 683-8327

VIRGINIA DIVISION OF FORENSIC SCIENCE

*Western Regional Forensic Science Laboratory & Medical Examiner Facility
Roanoke, Virginia*



McClaren, Wilson & Lawrie, Inc. served as specialists in the programming, design, and construction of the Western Forensic Science Laboratory/Medical Examiners Facility. It was planned as a full-service laboratory for the Commonwealth's Division of Forensic Science and Office of the Chief Medical Examiner to serve the western half of Virginia.

Laboratory sections include Administration, DNA/Serology, Trace Evidence, Chemistry/Drug Analysis, Toxicology, Firearms, Latent Prints, Questioned Documents, Forensic Photography, and Security/Support Services.



The Medical Examiner facility provides scientific medico-legal investigation of suspicious deaths in the Commonwealth's Western District. Forensic pathology sections include Administration, Autopsy Complex, X-Ray Complex, and Histology Laboratory. The use of natural lighting in the autopsy facility enhances color rendition during forensic pathology procedures, as well as provides extremely high lighting intensity levels (in excess of 500-750 footcandles).

The highly-specialized laboratory facilities include a PCR room for DNA profiling, evidence examination rooms, 75' firing range for firearms examination, and dusting room for fingerprint identification and body dissecting stations. All areas where biologicals are handled were specially designed as biohazard spaces for the safety of occupants and for the avoidance of contamination of evidential materials. Additional shared facilities include lobbies, training classrooms, and break room.

Client Contact: Steven C. Sigel
Director, Western Laboratory
Division of Forensic Science
(540) 561-6600

FEDERAL BUREAU OF INVESTIGATION, UNITED STATES DEPARTMENT OF JUSTICE

*Laboratory Division
Quantico, Virginia*



McClaren, Wilson & Lawrie, Inc. staff served as specialists in the programming and design of the new FBI Laboratory that will replace the current J. Edgar Hoover headquarters facility in Washington, D.C. This state-of-the-art laboratory serves the vital interests of the United States of America nationally and internationally. The laboratory will be staffed by 760 persons in the FBI's divisional network of administrative, investigative, forensic science, special projects, research, and training facilities.

Forensic science laboratories in the Scientific Analysis Section are devoted to the examination, analysis and identification of evidence throughout the full spectrum of the forensic sciences. Cutting edge laboratories will

be designed to perform this work using the latest procedures, including DNA profiling; serological, chemical and toxicological analysis; hairs and fibers examination; firearms/tool marks identification; elemental, metals and materials analysis; explosives and bomb reconstruction analysis as well and statistics regarding these acts of terrorism.

The Latent Prints Section includes advanced latent print analysis, automated fingerprint identification, and latest photographic techniques. The Investigative Operations Section is involved in questioned documents analysis, computer crimes, racketeering, polygraph work, and specialized photography and photo analysis.

The FBI provides advance training and conducts leading edge research through its Forensic Science Research and Training Center. The Center will focus on forensic science research, development and improvement of new forensic examination procedures, polygraph research, and other specialized research. FBI research is widely published in scientific journals.

Client Contact: Earl Roberts
Project Director, Federal Bureau of Investigations
(703) 632-1115

AUSTIN POLICE DEPARTMENT

*Police South Central/Central East Substation and Forensic Science Laboratory
Austin, TX*

The Austin Police Department's Forensic Science Center and Central East Police Substation are being co-located in a single consolidated facility. Both the forensic laboratory and substation are designed to maintain their own security and identity within the shared building. Shared spaces include the entry lobby, training spaces, and a break room.



The Austin Police Department Forensic Science Center provides a wide range of forensic services dedicated to providing scientific support and the highest quality analysis for the criminal justice community. Forensic examination of evidence is provided through the following laboratory sections: ID/Crime Scene Unit, ID/Latent Prints Unit, Questioned Documents, Forensic DNA, Drug Analysis Section, Firearms Section, Breath Alcohol Testing and Multi-Media Laboratory. Additional supporting lab sections include Laboratory Administration, Laboratory Support, and the Evidence Control Section.



The Central East Substation will provide an efficient and flexible office environment with effective officer support spaces including suspect processing, standard and secure interview rooms, evidence processing and storage, report writing spaces, etc. The substation and forensic center was planned to accommodate for future growth and be welcoming and accommodating to the visiting public.

Client Contact: Eric Stockton
Austin Police Department
Facilities Manager
715 E. 8th Street
Austin, TX 78701
(512) 974-5025

In addition, McClaren, Wilson & Lawrie, Inc. has worked needs analyses, master plans, and design of Forensic Science Laboratories and Medical Examiner facilities in 23 states, including the following:

ALASKA

Alaska Statewide Forensic Science Laboratory

ARIZONA

Arizona Statewide Forensic Science Laboratory
Phoenix Police Department Forensic Science Laboratory
Scottsdale Police Department Forensic Science Laboratory
Tucson Regional Forensic Science Laboratory

CALIFORNIA

Alameda California County Sheriff's Office Forensics Laboratory
Alameda County Coroner Facility
California Statewide DNA Profiling Laboratory
Chula Vista California Forensic ID Laboratory
Riverside California Coroner Facility
Kern County District Attorney's Crime Laboratory
California Statewide Forensic Crime Laboratory Facilities
California Department of Justice Forensic Science Laboratory
Los Angeles County Satellite Sheriff's Forensic Science Laboratory
Oakland Police Department Forensic Science Laboratory
Sacramento Forensic Science Laboratory and Coroner Facility
San Diego County Regional Forensic Science Laboratory
San Diego DNA Laboratory
San Leandro Sheriff's Forensic Laboratory
Santa Clara Forensic Science Laboratory
Ventura County Forensic Science Laboratory

COLORADO

Arapahoe County Colorado Medical Examiner Facility
Colorado Springs DNA Laboratory

DISTRICT OF COLUMBIA

U.S. Dept of Justice Mid-Atlantic Forensic Science Laboratory
Washington DC Municipal Evidence Facility

FLORIDA

Hillsborough County Florida Medical Examiner Facility
Orlando Regional Forensic Laboratory
Pinellas County Medical Examiner Facility & Forensic Laboratory

ILLINOIS

Illinois Coroner's Facility

INDIANA

Indiana State Police Forensic and Health Sciences Center

IOWA

Des Moines Iowa Department of Health Forensic Laboratory
Iowa Department of Public Safety

MARYLAND

Maryland State Police Forensic Science Laboratory
U.S. Army Corps of Engineers Radiological, Chemical & Biological Receiving Center
Coppin State University Academic Forensic Science Laboratory
Prince George's County DNA Laboratory

MICHIGAN

Michigan Statewide Forensic Science Laboratory
Michigan State Police Forensic Laboratory
Oakland County Sheriff's Department Forensic Laboratory

MINNESOTA

Minnesota Department of Public Safety Bureau of Criminal Apprehension

MONTANA

Montana Forensic Science Laboratory and Medical Examiner Facility

NEW MEXICO

New Mexico Forensic Science Laboratory

NEW YORK

New York State Police Investigation Center Forensic Science Laboratory
Erie County Central Police Forensic Science Laboratory
Monroe County Crime Laboratory
Syracuse Regional Forensic Laboratory

OKLAHOMA

Oklahoma State Central Forensic Laboratory

TENNESSEE

Tennessee Central Forensic Laboratory
Middle Tennessee Post Mortem Facility
Knoxville Regional Forensic Laboratory
Jackson Regional Forensic Laboratory
Memphis Regional Forensic Laboratory
East Tennessee Forensic Center & Medical Examiner Facility

TEXAS

Austin Police Department Forensic Laboratory
Dallas County Forensic Laboratory & Medical Examiners Facility
Fort Worth Police Department Forensic Science Laboratory
Garland Police Department Forensic ID Laboratory

VIRGINIA

Federal Bureau of Investigation – Main National Forensic Laboratory
Tidewater Regional Forensic Laboratory
Richmond Forensic Laboratory & Medical Examiners Facility
Richmond Police Department Forensic ID Laboratory
Western Regional Forensic Science Laboratory & Medical Examiner Facility
Fairfax County Police Forensics Facility
U.S. Dept of Justice DEA Special Testing & Research Forensic Science Laboratory

VERMONT

Vermont Forensic Science Laboratory

WASHINGTON

Eastern Washington Forensic Laboratory
Bellevue Police Dept Forensic ID Laboratory
Seattle Forensic Science Laboratory

WEST VIRGINIA

West Virginia Univ Academic Laboratory

CANADA

Hamilton Ontario Regional Forensic Science Laboratory
Toronto Ontario Identification Laboratory

DPR CONSTRUCTION, INC.

Samples of DPR's recent projects include the following:

CAPITOL SQUARE

*Finance and Washington Buildings
Richmond, Virginia*

This two phased project, through the PPEA program, involves the renovation and addition to the historic Finance Building (50,000 sq. ft. renovation to a building dating from the late 1800's including a \$1million abatement package and a 50,000 sq. ft. addition) and the renovation of the 14-story Washington Building all on the Capitol Square in downtown Richmond.



Client Contact: Ray Goins
Trammell Crow Company
8444 Westpark Drive
Suite 300
McLean, VA 22102
(703) 288-2572

PACKARD HUMANITIES INSTITUTE

*Library of Congress (LOC) - National Audio-Visual
Conservation Center (NAVCC)
Culpeper, Virginia*

This project consisted of preconstruction and construction services for the complete renovation of a decommissioned underground Federal Reserve facility, as well as the construction of five additional buildings. The additional buildings are designed to house and conserve the national audio and visual archive for the Library of Congress and other supporting facilities. This project will have a complete new green roof system both as part of the renovated areas, and new areas of approximately 229,984 sq. ft. or almost 5.5 acres.



Client Contact: David Clark
Hanscomb Faithful & Gould
1725 Duke St.
Alexandria, VA 22314
(703) 759-00867

US PHARMACOPEIA CONSOLIDATION PROJECT

Rockville, Maryland

After tackling preconstruction services for the consolidation of nearly 140,000 sq. ft. of laboratory and office space for U.S. Pharmacopeia (USP), DPR is now beginning construction of the complex, ground-up biotech facility. The fast-track project consists of two structures, a four-story office/lab building and a state-of-the-art conference center, spanned over a three-level, 120,000 sq. ft. below-grade garage.

Client Contact: Michael Bynum
The Orr Company
3110 Fairview Park Drive
Suite 1100
Falls Church, VA 22042
(703) 289-2100

BIOGEN IDEC

*Project NIMO
Oceanside, California*

The team's mission to "design, build and qualify Biogen Idec's first large-scale biotech manufacturing facility for cancer, autoimmune and inflammatory therapies" set the tone from the very beginning in 2002 for the successful ahead-of-schedule delivery of the six-building manufacturing campus. More than 20 organizations worked together to take design-build to new heights on this notable, \$350 million project that will add more than 20 percent (90,000 liters) to the world's production of cell fermentation capacity. The project, located on a 60-acre site in Oceanside, California and was completed in December 2004. It features a 32,000-sq.-ft. operations



building, 65,000-sq.-ft. central utilities building, 70,000-sq.-ft. cGMP warehouse, three-story, 120,000-sq.-ft. laboratory/office building, three-story, 210,000-sq.-ft. manufacturing facility, and 14,000-sq.-ft. central corridor/"Spine" building that connects all of the buildings.



The central utilities building serves as the "heartbeat" of the complex, feeding electrical power, chilled water, raw and softened water, steam, gases, and other key utilities throughout the campus through nearly one million pounds of ductwork, 21 miles of plumbing piping, 10 miles of HVAC piping, 100 miles of conduit and 300 miles of wire and cable. Requiring 15kV of electrical power to operate, the facility is also equipped with enormous backup power capacity, consisting of 10 megawatts from standby generators fed by five 5,000-gallon above-ground diesel fuel storage tanks.

Client Contact: Johannes Roebbers
biogen idec
One Antibody Way
Oceanside, CA 92056
(760) 231-2683

BAYER CORPORATION

*New sterile fill facility - building 81
Berkeley, California*

The Sterile Filling Facility (SFF)-Building 81 is a \$70 million ground-up, 44,308-sq.-ft. two-story facility housing Bayer's cGMP sterile filling operations. Building 81 is the third building that DPR has constructed on Bayer's South Properties Campus in Berkeley, CA (DPR previously built the central utilities building and cGMP Warehouse and Packaging Facility (WHPK)). The SFF is located to the northeast of the WHPK

facility and is connected to the WHPK via a bridge on the second floor. The SFF includes a significant amount of pharmaceutical clean-class areas, including Class 100, 10,000 and 100,000 spaces. The facility features a new sterile filling line, two lyophilizers, and a capping line. The latter equipment was purchased by Bayer and installed by DPR. Also included was a clean "bulking" area for pharmaceutical liquid processing.



Within the building's mechanical spaces will be water for injection, clean steam, and chilled glycol utility systems. The facility includes significant quantities of high-purity process piping, process controls, and clean-class HVAC installations. DPR was responsible for construction (including certain equipment) and the installation and coordination of Bayer-purchased equipment.

Client Contact: Rex Eicher
Bayer Corporation
200 Dwight Way
Berkeley, CA 94710
(510) 705-7713



In addition, DPR is currently working on or has completed the following projects:

FEDERAL CENTER FOR BIO-DEFENSE @ GMU

Total Construction Cost - \$50,000,000-Prince William County, VA

DPR is the General Contractor leading the Design build and preconstruction processes on this 90,000SF BSL2, BSL3, BSL 4 animal research Laboratory facility which will house NIH bio-defense research. The project is currently in preconstruction and construction will start in August 2005 scheduled for completion in late 2006.

AGOURON BUILDING 26 AND 27

Total Construction Cost - \$65,000,000-San Diego, CA

This project included a 452,000-sq.-ft. facility with chemistry and pharmaceutical BSL2, BSL 3, and BSL 3+ laboratories with two basic lab modules and featured a total of 200 offices, 87 labs, 53 fume hoods, 70 equipment rooms, 18,000-sf vivarium, walk-in freezers, cold rooms, a glass washing room, and specialty equipment rooms

THE INSTITUTE FOR GENOMICS RESEARCH BUILDING 5

Total Construction Cost - \$32,000,000-Rockville, MD

DPR completed Preconstruction and CM at risk services for this 122,000-sq.-ft. Institute for Genomic Research (TIGR) in Rockville, Maryland. This project consists of BSL-2 and BSL 3 wet and dry laboratory space. The project was completed in August of 2004.

CELL GENESYS, INC

Total Construction Cost - \$42,000,000-Hayward, CA

DPR provided CMc Services & Preconstruction services on this validated 70,000-sq.-ft. cGMP clinical and production facility. GVAC Cancer vaccines are produced here under ultra clean conditions. This facility consists of multiple 500 liter cGMP cell culture bioreactor lines and suites. Project completion was November 2003.

GENENTECH, INC – MULTIPLE PROJECTS

Total Construction Cost - \$102,000,000, Vacaville and San Francisco, CA

DPR provided CMc Services on 4 ea cGMP, Class 100, 10,000 and 100,000 clean room fill and finish pharmaceutical manufacturing facilities. Totaling over 208,000 sq. ft., this validated cGMP clinical and production facility, included high purity process piping, and clean class HVAC installations for high purity liquid and solid drug manufacturing. Projects were completed in August 2004 and were constructed for a repeat client.

TROUTMAN SANDERS

Troutman Sanders' projects demonstrate its experience as a major law firm engaged in virtually every aspect of civil and commercial law. The following is an example of Troutman Sanders projects that are comparable in size and complexity to the proposed Northern Virginia Forensic Laboratory.

GEO

State Prisons

Charlotte County and Grayson County, Virginia

Troutman Sanders served as chief privatization and government affairs counsel for analysis and advocacy for the Team proposal to build and operate two new medium security prisons. This project was through the PPEA and involved issues of local government and community approval, construction and finance.

Client Contact: John Hurley
One Park Place, Suite 700
621 Northwest 53rd Street
Boca Raton, FL 33487
(561) 999-7380

EDS

*VITA IT Consolidation Project
State-wide*

Troutman Sanders served as chief privatization and government affairs counsel for analysis and advocacy for the EDS Team VITA PPEA IT Consolidation Proposal. This large-scale, public/private proposal required substantial legal and governmental relations advice and counsel. This project involved a substantial operational component, construction and finance.

Point of Contact: Cathy Stark
EDS
4405 Cox Road, Suite 200
Glen Allen VA 23060
(804) 965-7020

AMERICAN TRUCKING ASSOCIATIONS

*Interstate 81 Toll Legislation
Roanoke, Virginia*

Troutman Sanders served as chief privatization and government affairs counsel for analysis and advocacy related to PPTA proposal for improvement of Interstate 81. This is a large-scale, public/private project that requires substantial legal analysis and advice regarding the financial plan. It also requires a concerted government relations effort focused on the General Assembly to encourage favorable action.

Point of Contact: Rick Holcomb
ATA
2200 Mill Road
Alexandria VA 22314-4677
(703) 838-1865

In addition to the above projects, and as requested in the PPEA initiative, following is a listing of additional Troutman Sanders prior projects and clients for the past three years:

Client: Atlantic Shores Healthcare
Period of Performance: December 2003 to Present
Services Provided: Consulted on PPEA proposal for forensic and civil mental health services privatization.
Point of Contact: Dale Frick
621 NW 53rd Street, Suite 700
Boca Raton, FL 33487
(800) 275-8370

Client:	H & M Schools
Period of Performance:	June 2003 to Present
Services Provided:	Data Center Design & Development
Point of Contact:	Greg Kelly 11429 Ivy Home Place, Suite A Richmond, VA 23233 (804) 747-7600
Client:	Turner Construction
Period of Performance:	June 2003 to December 2003
Services Provided:	Consulted on PPEA Proposal for Roanoke County Emergency Center.
Point of Contact:	James Turner 130 Church Avenue Roanoke, VA 24009 (540) 343-6749
Client:	Capitol Square Development Ventures
Period of Performance:	May 2003 to September 2003
Services Provided:	Chief legislative counsel for PPEA proposal for renovations
Point of Contact:	Peter Larkin 401 Ninth Street, NW, Ste. 1050 Washington, DC 20004 (202) 783-8181
Client:	Commonwealth of Virginia
Period of Performance:	January 2002
Services Provided:	Privatization counsel for Coalfields Expressway
Point of Contact:	Richard L. Walton Office of the Attorney General 900 East Main Street Richmond, VA 23219 (804) 786-7773

Point of Contact

- 1 d. Provide the names, addresses, and telephone numbers of persons within the firm or consortium of firms who may be contacted for further information.

Ownership Team

Robert Skunda President and CEO Virginia Biotechnology and Research Park Authority 800 East Leigh Street Richmond, VA 23219 Phone: 804-828-5391 Fax: 804-828-8566

Development Team

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Design Team

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Forensic Consultant

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McClaren, Wilson and Lawrie, Inc.
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Roanoke, Virginia 24001
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Fax: 540-343-7542
Email: lawrie@mwlaarchitects.com

General Contractor

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DPR Construction, Inc.
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Richmond, VA 23219
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Legal Counsel

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Richmond, Virginia 23218
(804) 697-1474
(804) 697-1339 (FAX)
Email: clark.lewis@troutmansanders.com

Financial Statement

- 1 e. Provide a current or most recently audited financial statement of the firm or firms and each partner with an equity interest of twenty percent or greater.

SPI, DPR and the Virginia Biotechnology Research Park Authority financial statements are included under a separate cover. No other firm or partner has a 20 percent equity interest in this project; and therefore, financial statements from McKinney and Company, Willis Patten Lawrie, AIA, and Troutman Sanders, LLP are not included.

Conflicts of Interest

- 1 f. Identify any persons known to the proposer who would be obligated to disqualify themselves from participation in any transaction arising from or in connection to the project pursuant to The Virginia State and Local Government Conflict of Interest Act, Chapter 31 (§2.23100 et seq.) of Title 2.2.

SPI is unaware of anyone on our team who would be obligated to disqualify themselves from participation in any transaction arising from or in connection to this project pursuant to the Virginia State and local Government Conflict of Interest Act.

Staffing

- 1 g. Identify proposed plan for obtaining sufficient numbers of qualified workers in all trades or crafts required for the project.

The team's General Contractor, DPR Construction, will lead the effort to ensure sufficient and qualified workers will be provided. The plan is outlined below:

DPR's Subcontractor Procurement: One of the most pivotal components of a successful project, other than selection of the General Contractor, is the selection of subcontractors who are capable, qualified, and will provide competitive pricing. Assuring quality performance by the subcontractors while still providing a competitive and economical approach to construction requires skilled handling by the General Contractor and the Project Team in pre-qualifying and selecting the subcontractors who will be invited to bid for each item of work. In summary, this process consists of the following steps:

- Pre-qualifying subcontractors
- Preparing bid packages

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- Bidding and awarding the work
- Managing the selected subcontractors

Pre-qualify Subs: The items considered in DPR's pre-qualification effort include the following:

Identification of any special Owner concerns, or requirements, and the capability of the sub to address these issues: Issues such as sensitivity to ongoing operations with respect to noise and visibility.

Experience: A demonstrated experience in projects of this type and complexity.

Financial status and capability of the firm: This is particularly significant in today's market, where the potential for subcontractor default is a major concern. The obvious impact to the project should a subcontractor default can be significant to schedule, cost and quality.

Current workload: Evaluate the current workload of the firm vs. their capacity, given their available resources for labor and management, with an understanding of the demands of this project for attention to detail and quality.

Quality of work: Verifications of the firm's proven track record for quality workmanship and their reputation for taking pride in their work.

Safety record: Evaluate the safety performance of the subcontractor.

Upon evaluating the available subcontractor marketplace using this criterion, DPR will have developed a complete list of pre-qualified Subcontractors to invite to participate in this project.

Preparation of Bid Packages: This process essentially consists of defining the criteria and parameters for the subcontractor bidding process. For each element of the project that will be competitively bid to each subcontractor, DPR will prepare complete bid packages to instruct the bidders on the specifics to be included in their bid. The bid package will consist of the following:

Organize scope of work for each trade: DPR will write complete Scopes of Work for each element of the project. The purpose of these Scope sheets is to eliminate any gaps as well as duplication between the trades. Eliminating duplication through this process of clearly defining the scope to be included will result in a direct cost savings to the project. And eliminating gaps will help maintain the budget by minimizing subcontractor claims.

Incorporate logistics plan: Included in our bid package is the Logistics Plan. The Logistics Plan is a graphic and written representation of the project requirements that define the parameters of the project that may impact the subcontractor's approach to the project. Included in the Logistics Plan are such considerations as:

- Fence Location/Requirements
- Lay down/staging area
- Pedestrian/employee access
- Employee/contractor parking
- Trucking/delivery route
- Maintenance of ongoing operation
- Public relations program

Incorporate Scheduling Requirements: The master schedule, which will be a computer-plotted CPM network schedule that identifies milestone dates, will be included in the bid package, and the subcontractor will be notified that they will be obligated to conform to these schedule requirements.

By clearly defining these requirements in the bid package, all subcontractors have a clear understanding of the project approach while still in a competitive mode, and they are able to fully understand issues otherwise left for their interpretation when bidding.

Upon selection, DPR will establish a prioritized purchasing schedule, and bid packages will be prepared accordingly.

Bid and Award Subcontractors: Once the bid packages are released for bidding and the bid period comes to a close, DPR will go through the following Subcontractor Award process which consists of the following:

DPR will receive, analyze and clarify the proposals, tabulate the results to ensure an accurate and equal comparison of the bids, and submit a recommendation to the Project Team for award, DPR will welcome all team representatives to be present when the bids are received and opened.

The bid results are provided to the appropriate team members for review and discussion and subsequent subcontract award. Once a team consensus is reached, they will execute the Subcontract Agreement with the successful subcontractors.

Subcontract Management: The significance of the subcontractor's role cannot be overlooked. The subcontractors, along with DPR's carpenters and laborers, put the work in place. As General Contractor, DPR is charged with the task of managing the subcontractors and ensuring the Owner and Architect that the goals of the Client will be achieved.

Training

- 1 h. Provide information on any training programs, including but not limited to apprenticeship programs registered with the U.S. Department of Labor or State Apprenticeship Council, in place for employees of the firm and employees of any member of a consortium of firms.

Scheer Partners, Inc.

Trained employees are fundamental to meeting client expectations. Therefore, SPI places a strong emphasis on training. Our culture encourages an eagerness to learn and share knowledge. These qualities are vital to providing outstanding service in support of the State's long term success. Whether providing our employees with ongoing career development, tuition reimbursement, or mentor support, SPI is committed to providing continuous quality training.

McKinney and Company

McKinney and Company's mission is to inspire and nurture shared beliefs in ourselves as professionals and to transform this inspiration into the daily pursuit of excellence in service to our clients. Our range of services fosters a wide diversity of knowledge and practice exchange among the full-service design team, and enables members of the firm to fully appreciate, integrate and execute comprehensive solutions to complex problems. McKinney is committed to establishing open communications in a true partnering environment with our clients and other professionals to ensure better project quality delivered at lower cost and on schedule.

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DPR Construction

One of the core values of DPR's Guiding Philosophy is "Ever-Forward" with a belief in continual self-initiated change, improvement, learning and the advancement of quality standards not only from the Client's perspective, but for the value of instituting proven improvements.

DPR improves satisfaction of their customers' ever-changing needs by constantly searching for ways to improve processes and techniques. DPR learns all they can about their clients' businesses, and use that insight to create training programs to equip their employees with the skills they need to exceed expectations.

DPR's Mid-Atlantic office offers 20+ training classes throughout the year, 10 of which are mandatory. Their corporate training team works with the DPR Mid-Atlantic training team to develop new classes as the need arises. Ideas for new training modules come from Customer Satisfaction Surveys, Employee Surveys, and their training "Wagon Wheel", a measurement tool used to assess the training needs of individual employees.

Mandatory classes include: CPR/First Aid (annually), OSHA 10-hour (annually), Injury Free Environment (annually), Sexual Harassment Awareness (annually), Current Best Practices (3-day intensive), DPR Culture, and Presentation Skills. Other courses (mandatory for some peer groups, optional for others) are: Change Management, Project Scheduling, Subcontract Seminar, Contract Insurance, Requirements, Forecasting/Quantities/MEO, Timberline Estimating.

In addition to the standard training courses, DPR is constantly exploring different training formats. DPR has subscribed to an online safety training program known as "CLICK Safety." Presently, this is available to our field supervisors and some of the administrative staff. Plans for 2005 are to expand this training to the entire region.

DPR increases their client satisfaction exponentially by sharing their knowledge and experience with the people with whom they work. Their project success depends on their own employees as well as the people who work for them, so they also offer training to their subcontractors and MBE/WBE firms. All subcontractors participate in extensive safety and jobsite technique classes, and they offer estimating, project management, scheduling and marketing courses to MBE/WBE firms

SWAM Commitment

- 1 i. Provide information on the level of commitment by the firm or consortium of firms to use Department of Minority Business Enterprise firms in developing and implementing the project.

Scheer Partners

SPI has a long-standing commitment to equal employment opportunity for all qualified persons, both internally and with our business partners and vendors. We encourage the employment of minority business enterprises (MBE) and WBE. We will work with our design and construction team to establish goals for the use of disadvantaged businesses that will satisfy the Commonwealth and DFS/OCME. Goals will be established for minority participation for prime vendors as well as second and third tier subcontractors. The goals will be closely monitored and reported back to the Commonwealth.

McKinney and Company

McKinney and Company shares the same commitment to SWAM participation in this project. As one recent example demonstrates, the McKinney commitment to encourage and foster small, woman owned and minority businesses in the Division of Consolidated Laboratory Services project; McKinney was able to make the following MBE commitments to design subcontractors: The Plan Source (MBE) for Civil Engineering (5%); NRW (WBE) for

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Structural related to Parking Deck (2%); Gather (WBE) related to Parking Deck (3%); Johnson, Inc. (MBE) for MBE sub consultants and community involvement (4%); NXL (MBE) for survey (2%).

DPR

DPR Construction is committed to encouraging and facilitating the participation of small, women-owned and minority-owned businesses in the Project. These businesses will be solicited and encouraged to participate in the procurement activities of DPR Construction; and, records will be maintained documenting such solicitation efforts and participation. Further, the DPR Construction will encourage its subcontractors to provide for the participation of small, women-owned and minority-owned businesses through partnerships, joint ventures, subcontracts and other contractual opportunities.

Examples of SBE/MBE/WBE Participation

- Capitol Square, Finance Building - Current SWAM participation at 48%
- Library of Congress, NAVCC project - Current SWAM participation at 21%
- Bank of America, All Projects - Current SWAM participation at 26%
- White Oak Semiconductor - 1997, 13%

Troutman Sanders

Troutman Sanders LLP embraces diversity as a cornerstone of its future. It means, in part, a commitment by all attorneys to a shared vision and the establishment of a workplace environment that is fully inclusive. When we partner with other companies to develop projects or implement business objectives, Troutman Sanders' commitment to diversity takes further shape. The firm takes full advantage of the knowledge and talents of a multicultural team in order to meet and exceed client expectations, and to meet the firm's obligation to provide the broadest possible range of opportunities to the members of the communities served by the firm.

Qualifications

- 1 j. For each firm or major subcontractor that will perform construction and/or design activities, provide the following information:
- (1) Sworn certification by an authorized representative of the firm attesting to the fact that the firm is not currently debarred or suspended by any federal, state or local government entity.
- (2) A completed qualification statement on a form developed by the Commonwealth that reviews all relevant information regarding technical qualifications and capabilities, firm resources and business integrity of the firm, including but not limited to, bonding capacities, insurance coverage and firm equipment. This statement shall also include a mandatory disclosure by the firm for the past three years any of the following conduct:
- (A) bankruptcy filings
 - (B) liquidated damages
 - (C) fines, assessments or penalties
 - (D) judgments or awards in contract disputes
 - (E) contract defaults, contract terminations
 - (F) license revocations, suspensions, other disciplinary actions
 - (G) prior debarments or suspensions by a governmental entity
 - (H) denials of prequalification, findings of non-responsibility
 - (I) safety past performance data, including fatality incidents,
- "Experience Modification Rating," "Total Recordable Injury Rate" and "Total Lost Workday Incidence Rate"
- (A) violations of any federal, state or local criminal or civil law
 - (B) criminal indictments or investigations
 - (C) legal claims filed by or against the firm

See attached statements and additional forms (DGS-30-168 and 172) from DPR and DGS-30-004 forms from McKinney and Company under Appendix A.

Worker Safety Programs

- 1k. Worker Safety Programs: Describe worker safety training programs, job site safety programs, accident prevention programs, written safety and health plans, including incident investigation and reporting procedures.

Scheer Partners

SPI is proud of our safety record on all projects. Our role in the project's workplace safety programs will be to diligently enforce an attitude of safety first in all companies, vendors, and individuals that enter the site. The SPI individuals that have been assigned to the project have attended safety workshops and are familiar with the OSHA standards for jobsite safety. SPI will uphold the standards of the Federal, State, and Local laws that effect construction safety.

McKinney and Company

McKinney and Company has a long and strong safety history. All of our project managers are familiar with OSHA Standards and carry CPR cards. Additionally, our architectural and engineering associates are equally knowledgeable in OSHA Regulations. Our role in this project's workplace safety program will be to support a priority of safety for all associates who enter the site.

DPR Construction

Project Safety Program

The DPR safety program is a craft-driven safety program, where every person on every job site places the highest value on working safely. DPR's goal is to eliminate jobsite safety incidents altogether – this is a realistic goal, and they are well on their way to accomplishing this. DPR's safety record, one of the best in the industry, speaks to the level of seriousness with which they take their safety program. Their standards regularly exceed OSHA requirements.

The Basics of DPR's Approach:

- IFE Injury Free Environment - Every worker is trained in DPR's Injury Free Environment (IFE) program, the most comprehensive in the industry. Workers learn safety as a positive value, rather than a more cumbersome way to work.
- Pre-Task Plans - DPR requires workers on the site to complete and sign off on pre-task plans before every activity. This way potential risks are thoroughly analyzed before work begins, and workers take ownership in safe work habits. They use this opportunity to discuss ways to improve overall efficiency and performance.
- Incentives and Rewards – DPR's onsite programs reward workers for zero incident jobs, value-based behaviors, hazard recognition, management systems and safety-related training.
- Safety Training - Every worker will go through extensive safety training before setting foot on the site (see examples of training classes, below). DPR practices a zero tolerance policy toward unsafe work habits.
- Ongoing Vigilance - Site-specific orientations will be held for subcontractors as they come on the project; a jobsite safety coordinator will inspect the project at least twice per day; weekly safety meetings will be held to discuss key safety topics and issues; Intensive 10-hour OSHA Outreach certification programs will be conducted regularly.

DPR's Regional Safety Manager, Ralph Brasfield, is responsible for safety region-wide. The project superintendent will be responsible for safety on a day-to-day basis.

DPR drug policy

DPR Construction, Inc. prohibits the use, possession or distribution on its premises, facilities or work places of any of the following:

- Alcoholic beverages
- Intoxicants and narcotics
- Illegal or unauthorized drugs (including marijuana)
- "Look-alike" (simulated) drugs
- Related drug paraphernalia.

DPR employees must not report for duty under the influence of any drug, alcoholic beverage, intoxicant or narcotic or other substance (including legally prescribed drugs and medicines) which will in any way adversely affect their working ability, alertness, coordination, response, or adversely affect the safety of others on the job.

DPR Construction, Inc. has the right, in its discretion, to report to law enforcement officials the use, possession or distribution of any substance named in the first paragraph of this policy to law enforcement officials and to turn over to the custody of law enforcement officials any such substances on company property.

II. Project Characteristics

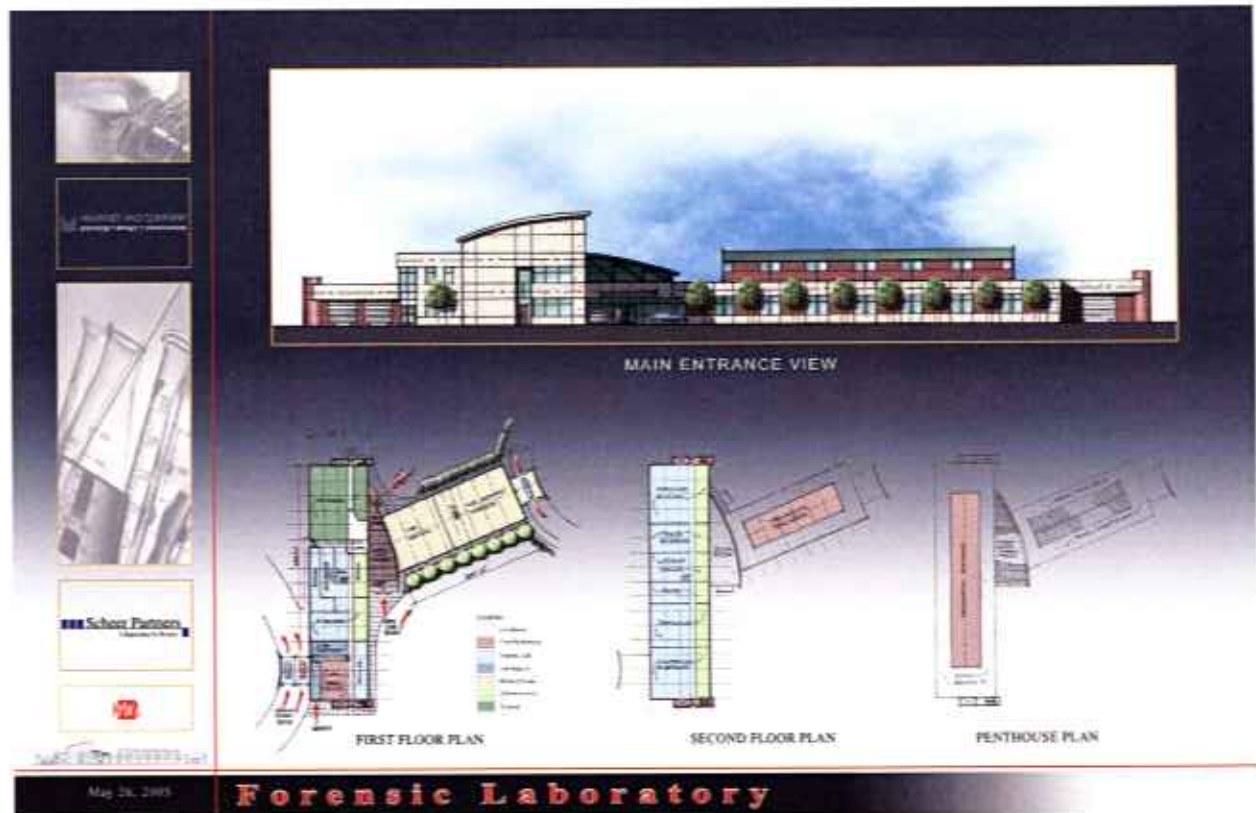
- II a. Provide a description of the project, including the conceptual design. Describe the proposed project in sufficient detail so that type and intent of the project, the location, and the communities that may be affected are clearly identified.

Building Program

A program for the Northern Forensics facility was provided by Dr. Paul B. Ferrara, Ph.D, Director of the Virginia Division of Forensic Science (a summary of which appears below). The estimate of the total square footage was updated in 2003 to 106,000 SF, and it is on that basis that the concept plan presented herein was formulated.

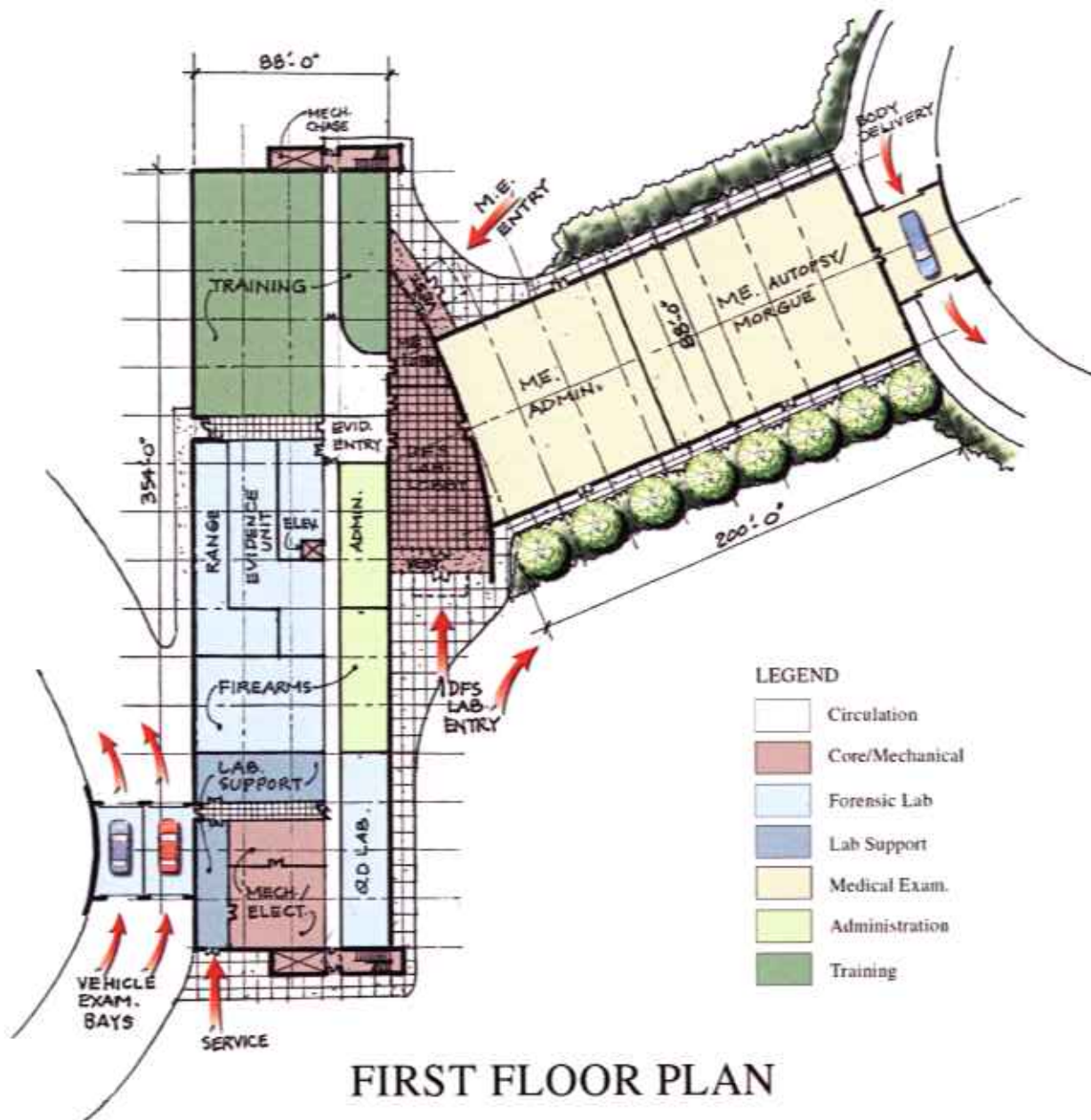
Special Requirements/ Basis for Area Requirements	Number of Stations or Users	Number of Spaces	Required Net Square Feet Per Space	Total Net (program assignable) Square Feet	Net Area Apportioned to New Construction	A _i
SUMMARY						
<u>Forensic Science</u>						
FS Administration				1,874	1,874	
Firearms/Toolmarks Lab				4,636	4,636	
Bio-DNA/Serology Lab				6,456	6,456	
Questioned Documents Lab				1,908	1,908	
Toxicology Laboratory				4,458	4,458	
Latent Prints Laboratory				3,078	3,078	
Photography Laboratory				2,480	2,480	
Trace Evidence Laboratory				3,788	3,788	
Controlled Substances Laboratory				5,458	5,458	
Program-Related Support				6,000	6,000	
<u>Shared Education and Training</u>				11,725	11,725	
<u>Office of the Chief Medical Examiner</u>						
A&E Administration				3,800	3,800	
Professional Staff				3,250	3,250	
Autopsy and Special Examination				8,689	8,689	
Evidence Management				1,225	1,225	
Program-Related Support				500	500	
Net Area (program assignable area):				69,325	69,325	
Building Efficiency Factor (ratio of net to gross area)				0.68		
Gross Area (Divide Net Area by Efficiency Factor)				101,949 *		

*Updated in 2003 by DFS to 106,000 SF



Design Concept

The SPI team's concept is a simple and direct solution to a relatively complicated program. The concept consists of a single 102,000 square foot (sf) structure divided into two distinctly separate investigative environments. The Forensics laboratory wing is two stories directly adjoining the primary entrance lobby. The Medical Examiner wing is a single story adjoining the opposing end of the entrance lobby. Although the entrance lobby is sited between the two wings, the entrances are on opposite sides of the building to prevent unwanted mixing of patrons visiting the facility. The program utilized to create the concept dedicates approximately 60,000 sf. to Forensics, 20,000 sf to shared spaces and 26,000 sf to the Medical Examiner. Included in these areas are mechanical and electrical support spaces including penthouses.



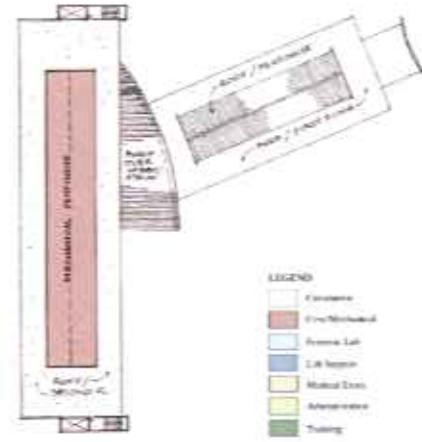
The Forensics wing is approximately 90 feet in width by 350 feet in length with an off-center, double loaded, corridor creating a highly efficient circulation factor. Investigative laboratories are organized along one side of the corridor while offices occupy the other. This allows for more efficient air management by concentrating returnable air from administrative spaces, thus reducing life-cycle cost. Each end of the Forensics wing is left unconfined allowing expansion for future growth. Situated on the first level are common spaces that may be shared by both entities such as food services, training rooms and large meeting rooms. Our concept provides for this wing to operate independently from the Medical Examiner wing including dedicated loading dock and auto-port for completely contained vehicle examination.

The Medical Examiner wing is approximately 100 feet in width by 200 feet in length. The administrative portion of the space is organized toward the entrance lobby for ease of communication to patrons and access to the Forensics

administrative staff and shared spaces. Autopsy and the morgue occupy the end of the wing furthest away from the entrance lobby to afford greater privacy and direct access to a separate auto-port.



SECOND FLOOR PLAN



PENTHOUSE PLAN

The building elevations consist mostly of brick, cast concrete, glass and some sloped metal roofing, although the material selections may be influenced by the buildings final site. The organization of the primary masses of the structure pivot off the entrance lobby about 20 degrees creating a more prominent entrance toward the Forensics wing. Refer to the attached conceptual plans and elevations for additional graphic understanding.



II b. Identify and fully describe any work to be performed by the public entity.

The SPI team anticipates active involvement by the DFS/OCME staff during the design and construction of the project. We would require programming input by the DFS/OCME during the Phase II PPEA proposal process and Comprehensive Agreement negotiations. Input by the DFS/OCME during the design and programming process is a crucial element to the overall success of the project. We will conduct a series of interactive design charrettes with DFS/OCME operations and facility management personnel to establish and confirm our schematic design approach and assumptions. We would also anticipate participation throughout the construction process to help monitor and report progress as well as respond to construction concerns that relate to the building operations. Final approval of completed construction by DFS/OCME as well as active involvement in the commissioning process is also anticipated as well.

II c. Include a list of all federal, state and local permits and approvals required for the project and a schedule for obtaining such permits and approvals.

The following local permits will be required:

- Building Permit
- Demolition Permit
- Electrical Permit
- Fire Protection Permit
- Gas Piping Permit
- Low Voltage Permit
- Mechanical Permit
- Occupancy Permit
- Plumbing Permit
- Storage Tank Permit
- Walk-in Cold Rooms Permit
- Land Disturbance Permit
- Elevator Certificate
- EPA Boiler Exhaust Permit
- Utilities Water/Waste Services Permit
- Signage Permit
- Grading and Infrastructure Permit
- Underground Utilities Permit
- Virginia Pollutant Discharge Elimination System (VPDES) Permit

II d. Identify any anticipated adverse social, economic and environmental impacts of the project. Specify the strategies or actions to mitigate known impacts of the project. Indicate if an environmental and archaeological assessment has been completed.

The Northern Forensics/OCME Facility is not expected to have adverse effects socially, economically or environmentally. The Scheer Partners Team, with extensive experience in executing such projects, will insure that all steps possible are taken to avoid negative social, economic or environmental impacts as a result of this project.

Environmental Assessment

Until a construction site is selected by the Commonwealth, the environmental impacts/assessment cannot be completed. Once a site is selected, however, the site will be developed to conform to all state and local environmental regulations.

Archaeological Assessment

Until a construction site is selected by the Commonwealth, the archaeological assessment cannot be completed. Once a site is selected, however, the Scheer Partners Team will assist the County and the Commonwealth in determining if the selected site has any archaeological significance. If during construction, items of archaeological significance are suspected, the appropriate state agencies will be notified and procedures that are governed by law will be followed.

II e. Identify the projected positive social, economic and environmental impacts of the project.

Positive economic impacts of this project will include work force opportunities as well as added incentives for encouraging new business growth. In addition, successful execution of this project will have a positive impact on future recruitment, job creation and stimulation for future investment in Prince William County and the surrounding region. The Scheer Partners Team will try to maximize participation on this project by utilizing local workers and construction companies/suppliers. Also, in order to minimize the funding burden of this project, the Scheer Partners Team will work diligently to deliver this facility in the most cost effective manner possible.

Please also refer to Section 4 (d).

II f. Identify the proposed schedule for the work on the project, including the estimated time for completion

Our schedule assumes design will begin in the first quarter of 2006 and the facility will be occupied in the second quarter of 2008. A detailed schedule and assumptions is included in Appendix B.

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- II g. Identify contingency plans for addressing public needs in the event that all or some of the project is not completed according to projected schedule.

The SPI team has an excellent reputation for delivering technically challenging projects on time and on budget. We utilize sophisticated scheduling tools and require that all members of our team provide weekly short term look ahead schedules and the master schedule is updated monthly. This attention to detail gives us the opportunity to identify and react to items that could adversely affect our progress. In the unfortunate event that significant delays do occur, the DFS/OCME could continue to function in their existing Annandale facility.

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- II h. Propose allocation of risk and liability for work completed beyond the agreement's completion date, and assurances for timely completion of the project.

The SPI team is prepared to offer performance guarantees and penalties relative to the performance of our work. These performance guarantees will be passed contractually down through all of our subcontractors. We will sign a Guaranteed Maximum Price (GMP) contract with our general contractor, DPR Construction. This GMP process will be in an "open book" format and will give the Commonwealth the ability to define the project prior to the bond issuance. Additionally, DPR Construction will provide payment and performance bonds, further limiting the risk of delivery of the proposed project.

-
- II i. State assumptions related to ownership, legal liability, law enforcement and operation of the project and the existence of any restrictions on the public entity's use of the project.

SPI ownership terms are flexible and as such we put forth two ownership scenarios. If the Commonwealth decides to own and finance the facility, then SPI can act as a "for fee" developer and assume the responsibility and risk to provide the DFS/OCME in a design/build process and not maintain an ownership interest.

If the Commonwealth elects our finance and leaseback option, then the Virginia Biotechnology Research Park Authority shall retain ownership of the property, and SPI will develop the property on behalf of the Authority. The ownership entity shall execute a lease document with the Commonwealth for the use of the property.

Operation and maintenance of the facility and property shall be the responsibility of the Commonwealth and DFS/OCME. Law enforcement will be the responsibility of Prince William County and the Commonwealth.

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- II j. Provide information relative to phased or partial openings of the proposed project prior to completion of the entire work.

It is our intent to concurrently construct the DFS and OCME portions of the facility and provide occupancy at the same time. If it is advantageous to the Commonwealth to phase the occupancy of the DFS and OCME to occur at different times, we can evaluate our plan.

III. Project Financing

- III a. Provide a preliminary estimate and estimating methodology of the cost of the work by phase, segment, or both.

ESTIMATING METHODOLOGY

Our development team has reviewed the program requirements as described by the DFS/OCME and in the space tabulation spreadsheets provided by Dr. Paul B. Ferrara, Ph.D. The conceptual design estimate is based on the construction of a new forensic science and medical examiner's facility located in Manassas, Virginia. The project consists of a new approximately 106,000 square foot facility inclusive of office, evidence storage, examination, training, laboratories and autopsy space. The design estimate includes penthouse space for mechanical and electrical equipment.

Our Estimate is based on the drawings and a design described in the project characteristics Section 2a of this proposal. Drawings included are:

- o First Floor Plan
- o Second Floor Plan
- o Penthouse Plan
- o Main Entrance View (front elevation)

Additional information used:

- o Space Requirements information as prepared by the Division of Forensic Science (DFS). 17 pages (undated)

Our budget does not include costs for land, and we assume the development of a 10 acre pad ready site with conditions generally found in INNOVATION @ Prince William County. We have not included costs for removal of stone or other underground hazards, excessive storm water management, development of access roads or offsite utilities. Our intent is to provide the DFS/OCME with a transferable baseline budget that can be fine tuned to a particular site once the site is determined.

Our overall development budget inclusive of an Allowance for Laboratory Equipment is:

Hard Costs	
Site/Shell/Interiors/Contingency	\$37,106,300
Soft Costs	
Design/Legal/Site Reports/Financing/etc.	\$7,143,180
TOTAL BUILDING DEVELOPMENT BUDGET	\$44,249,480
Fixed Equipment Allowance Budget	\$2,635,000
TOTAL PROJECT COST	\$46,884,480

A complete three level construction budget that further defines the assumptions made in the development of the Conceptual Design Budget is also included along with a timeline in Appendix B.

Following a joint review and reconciliation between our team and the DFS/OCME, budget modifications reflecting final programming requirements can be made to better serve your needs.

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- III b. Submit a plan for the development, financing and operation of the project showing the anticipated schedule on which funds will be required. Describe the anticipated costs of and proposed sources and uses for such funds. Include any supporting due diligence studies, analyses or reports.

Our proposal includes two project ownership and delivery options. The first is a 20-year "financing lease" between the Commonwealth and the Virginia Bio-Technology Research Park Authority (V BRPA), which will issue tax-exempt bonds and will own the facility during the term of the bonds. The second is ownership and funding provided by the Commonwealth, whereby SPI acts as "for fee" developer and assumes the development and construction risk on behalf of the Commonwealth.

Please refer to Appendix B for our financing approach and terms.

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- III c. Include a list and discussion of assumptions underlying all major elements of the plan.

Our team is flexible with regards to our proposed scope and lease terms, we are anxious to discuss our assumptions and further refine the goals of the DFS/OCME. For the basis of this proposal we have made the following assumptions:

- Purchase or financing of the land is not included in our proposal
- Our triple net lease term is for 20 years.
- A twenty (20) year amortization of the building and improvements
- Current market interest rates at the time of proposal submission.
- Construction in and around INNOVATION @ Prince William County
- We have not included property tax as this should not be required.
- DFS/OCME will be involved in the design of the project
- 10 acre, pad ready site with no offsite development will be required
- Our building program, design, and budget are based on the space tabulation spreadsheets provided by Dr. Paul B. Ferrara, Ph.D, Director of the Virginia Division of Forensic Science.
- We have included a Fixed Equipment Allowance that is budgetary in nature and can not be completely finalized until a programming and schematic design process has been completed with the DFS/OCME.

-
- III d. Identify the proposed risk factors and methods for dealing with these factors.

The major risk factors for this project will be construction risk and financing risk.

Construction risk will be mitigated by the experience of our team through a number of important management practices:

- Our design team, McKinney & Company and McClaren, Wilson, and Lawrie are exceptionally experienced in the design of forensic and medical examiner facilities. They know what is required and have worked successfully with the Virginia Department of Forensic Science and the Office of Chief Medical Examiner.

- Our construction partner, DPR Construction, is one of the most experienced Laboratory and technical project contractors in the country. The volume of labs and lab related equipment that they purchase and install gives them up a unique ability to provide detailed cost estimates and understand market pricing and product availability fluctuations. Planning and budgeting for these fluctuations will be the difference on this type of technically demanding project.
- Our knowledge of Prince William County's zoning and building code issues will further help mitigate risk. Scheer Partners has an excellent relationship with the County and we are currently developing a 100,000 sf cGMP manufacturing facility for Mediatech in Innovation @ Prince William County.
- Detailed project schedules will be used utilizing the latest scheduling software. These schedules will be updated on a weekly basis and all construction activities will be monitored.
- A site specific quality control program will be implemented and monitored. A "rolling completion list" will be conducted on a weekly basis, greatly reducing the need for a final punchlist.
- We assume the Commonwealth will begin rent payments to service the bond debt during the construction period.
- The SPI Team is prepared to offer delivery guarantees.

Financing risk is based on the volatility of interest rates. Indications are currently that interest rates will increase slightly over then next 4 quarters. Risk would be mitigated the sooner interest rates could be locked in. The SPI team is prepared to commit to a final GMP price prior to the completion of design documentation to allow the Commonwealth to take advantage of lower interest rates.

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- III e. Identify any local, state or federal resources that the proposer contemplates requesting for the project. Describe the total commitment, if any, expected from governmental sources and the timing of any anticipated commitment.

In order to continue the fast track nature of this project under the PPEA process, the SPI Team would expect that a Treasury loan could be secured to help cover preconstruction and design costs incurred prior to the funding of the bond which will probably not occur until after the start of the Commonwealth's next fiscal year starting 7/1/06. We would expect the funds from this loan would be available by 5/15/06. Repayment of this loan would occur at the completion of bond financing, currently anticipated to occur around 8/1/06.

Our lease rate assumes no capitalization of interest for the bond financing during the construction period and prior to occupancy. In order to service the debt during the construction period, the SPI Team would expect the Commonwealth to pay for the interest portion of this debt service in the form of rent. The SPI team is prepared to offer delivery guarantees to offset the Commonwealth's risk during construction.

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- II f. Identify the proposed schedule for the work on the project, including the estimated time for completion

Our schedule assumes that negotiations on our Comprehensive Agreement would begin 11/29/05 and finalized by 1/9/06. The project would be approved by the General Assembly and signed by the Governor by mid April 2006. We will request a Treasury Loan to bridge design costs until the bond issuance has been funded, and we would expect this loan to be funded by mid May 2006. With the governor's signature authorizing the lease, we will go to the bond

market at the beginning of the next fiscal year, 7/1/06, and would expect the bond to be funded by 8/1/06. Construction would begin on 11/20/06 with an approximate 18 month duration. We have allowed 8 more weeks for commissioning, and the DFS/OCME would occupy by 7/1/08. A detailed schedule is included in Appendix B.

IV. Project Benefit and Compatibility

PROJECT BENEFIT AND COMPATIBILITY OVERVIEW

The SPI Team is proud of its Conceptual Proposal to provide a State-of-the-Art Forensics Laboratory for the Commonwealth of Virginia. We are confident that the submission affords the Commonwealth with the opportunity to meet the critical forensic needs for the foreseeable future as detailed in the recent Crime Commission Study. (Senate Document 62.)

Project Beneficiaries

- IV a. Identify community benefits, including the economic impact the project will have on the Commonwealth and local community in terms of amount of tax revenue to be generated for the Commonwealth and political subdivisions, the number of jobs generated for Virginia residents and level of pay and fringe benefits of such jobs, the training opportunities for apprenticeships and other training programs generated by the project and the number and value of subcontracts generated for Virginia subcontractors.

The Crime Commission Study (Senate Document 62) has identified a backlog of cases and stresses on the forensic system due to the increased demand from prosecutors, investigators and the courts for forensics analysis, and the continuing potential for terrorist and bioterrorist threats. The Northern Virginia Forensics Laboratory will be an immediate benefit for the Commonwealth by providing State-of-the Art DNA forensic capabilities, the ability to quickly respond to bio-terror threats and to effectively alleviate the backlog of cases and delays in criminal investigations in the region.

The Northern Virginia Forensics Laboratory specifically benefits Virginia's law enforcement communities, the Federal Bureau of Investigation and the broader Commonwealth in general by providing needed forensic services to the Northern Virginia area and reducing a backlog of cases which has delayed the administration of the Criminal Justice System.

In addition, the Northern Virginia Forensics Laboratory will benefit the citizens of Prince William County because the most likely location of the facility is expected to be in or around the Innovation Commerce Park, an area of the County designated for clean, commercial development. Given the preliminary cost estimate for the project, there will be a substantial impact on the community in the form of wages to County residents, payroll and other taxes payable to the Commonwealth, and indirect benefits related to the purchase of goods and services associated with the construction of the project. Depending upon the financing alternatives utilized by the Commonwealth, there may also be State and local tax benefits.

The SPI Team also will make every effort to use local contractors during the construction phase of the project, to specifically include Small, Women- and Minority Owned (SWAM) businesses. The Commonwealth and local business communities also may enjoy further indirect benefits such as additional tax revenues from new companies that will locate near the newly constructed facility. The direct and indirect benefits will begin with construction and continue throughout the laboratories' long-term operation.

A more detailed discussion of potential tax benefits will be addressed in Section 3a of this Conceptual Proposal. In addition, the economic benefit, tax generation and subcontractor opportunities will depend on the final scope of the Initiative, which will be further identified in the detailed Phase II of the PPEA process.

Project Support

IV b. Identify any anticipated public support or opposition, as well as any anticipated government support or opposition, for the project.

The Northern Virginia Forensics Laboratory will provide clear benefits for the Commonwealth's citizens, employees and state agencies - benefits evident through more services and higher reliability. Given the nature of this important project, the SPI Team expects much public and governmental support for this critical project. The new laboratory is an essential facility that will benefit the law enforcement needs for the Commonwealth and local communities for years to come. The Virginia General Assembly in the 2005 budget bill expressed strong support for the laboratory and for its location in Prince William County. Although the new lab replaces an outmoded facility in neighboring Fairfax County, we anticipate little to no opposition from the County to a proposed move as we understand that other State agencies (i.e., the State Police) may be interested in utilizing the existing facility in Fairfax, thus not adversely impacting the employment levels within the County.

While the Scheer Partners Team fully expects much public and governmental support for The Northern Virginia Forensics Laboratory, we will leave nothing to chance. The Scheer Partners Team has put together a team of public affairs experts to develop and implement a comprehensive public relations strategy to educate the various stakeholders and constituencies, and to build and maintain support for this important initiative. Troutman Sanders LLP will serve in the lead role of government affairs, public relations and marketing services. It will do so in close consultation with the Department of Forensic Science and affected representatives of the local government. The Scheer Partners Team will develop a comprehensive strategic communications and marketing plan to reach all relevant market segments, from General Assembly members and local officials, to the business community and economic development organizations, and if necessary, the general public.

Finally, the construction of a new forensic lab has support from both the Executive and Legislative Branches of State government. The Scheer Partners Team will communicate with both branches to ensure that their support continues. Most importantly, in the Legislative Branch, the Scheer Partners Team will continue to brief members of the House Public Safety Committee, the House Appropriations Committee and the Senate Finance Committee to make sure that their support continues for this initiative. In addition, the Scheer Partners Team expects substantial support for the project from the Prince William legislators and local government officials in Prince William County.

Public Outreach

IV c. Explain the strategy and plan that will be carried out to involve and inform the general public, business community, local governments, and governmental agencies in areas affected by the project.

The Scheer Partners Team believes the most essential part of the communication/information plan will be the coordination of internal communications between the Scheer Partners Team and the Commonwealth. The Scheer

Partners Team will work with the Commonwealth to develop and focus upon key expectations in the area of public relations. We will establish guidelines for internal and external communications that facilitate the free exchange of ideas and comments so that all team members operate from the same set of principles and objectives.

All members of the Scheer Partners Team have a long history of facilitating public comment and support. By implementing a strategy consisting of our best practices learned through years of experience, our public involvement will be both substantive and meaningful. If necessary, the Scheer Partners Team is committed to implementing a proactive community outreach program to help make this important project a reality. Our approach to communications and community outreach will create a sense of involvement that builds and maintains community support and enthusiasm for the project.

When the Commonwealth selects the Scheer Partners Team to develop and implement the proposal, the Scheer Partners Team, through the law firm of Troutman Sanders LLP, will make the appropriate announcements, coordinated with public relations personnel from the Commonwealth, regarding the scope and intent of this important project. Further, key members of the Scheer Partners Team will be available for interviews by local and statewide media personnel to discuss the project and its development. As the project develops, the Scheer Partners Team members will remain available, if necessary, to make presentations to business, community and civic organizations and to report on the project's development and accomplishments. We also will provide a comprehensive and coordinated public information campaign that will reach the full range of stakeholders, including the general public, elected officials, public agencies and those employees and individuals who may be affected by this project. The strategy will specifically include lobbying support at the local and state levels of government.

In addition, members of the Scheer Partners Team will ensure that the public and key leaders are aware that the project is in the Commonwealth's and general public's best interests. We will use a variety of methods to inform stakeholders and the general public about progress and developments including:

- Articles in local and statewide newspapers promoting the project;
- Educational updates to provide information about the scope, timing and benefits of the project;
- Tours of the subject facilities to provide on-site illustrations of the project's benefits and progress;
- Participation at state and local levels such as speaking opportunities and public forum events to provide updates and to describe the benefits of the project; and
- Participation in local and regional economic development groups and related organizations to disseminate essential information about the project and its benefits to the public.

Compatibility

IV d. Describe the compatibility of the project with local, regional, and state economic development efforts.

The project is compatible with State economic development efforts because it provides clear benefits for the Commonwealth's citizens, employees and state agencies - benefits evident through more important governmental services and higher reliability. The SPI Team anticipates no incompatibilities with local zoning needs and that many, if not all, of this Initiative will be fully compatible with local economic development plans.

The project, and its location in or near the Innovation Commerce Park, will merge with the ongoing efforts of the region to develop this area into a center for high-tech commercial development. Moreover, the presence of the facility and its capabilities likely will serve as a catalyst for additional high-tech or biotech businesses to locate near the facility and to serve as a vendor and/or supplier to the laboratory.

Community / Regional Benefits

VI e. Describe the compatibility with the local comprehensive plan, local infrastructure development plans, and any capital improvements budget or other government spending plan.

The SPI Team is confident that the submission affords the Commonwealth with the opportunity to meet the critical forensic needs for the foreseeable future as detailed in the recent Crime Commission Study. (Senate Document 62.) The development of a Northern Virginia Forensics Laboratory, and the infrastructure necessary to support the facility, will have many benefits for the Commonwealth and Prince William County. The construction of the facility will have a stimulating impact on the economy of Prince William County and the surrounding region while providing the Commonwealth with much needed expertise and assistance in forensic systems and analysis for the law enforcement community. Finally, the placement of this facility in the Innovation Commerce Park is compatible with the local government's comprehensive plan as well as existing infrastructure development plans.

THOMAS R. SANDLIN

Executive Vice President



Thomas R. Sandlin has extensive corporate service experience for such companies as MCIWorldcom, Mobil, Intelsat, Nextel, Hughes, National Association of Securities Dealers, and various Federal Government agencies, where he managed and executed complex projects consisting of strategic planning/consulting, development, acquisition, restructuring, financing, and disposition.

Tom's individual project experience range up to 1,000,000 square feet in size, in addition to creating and planning development projects totaling over 4,000,000 square feet and 3,000 residential units. Tom has recently planned and implemented a number of complex projects consisting of development, strategic planning and finance assignments both regional and national including:



- A financial analysis and disposition for the U.S. Postal Service for a mixed-use project in San Francisco for \$100 million
- A Washington area strategic plan resulting in an 800,000 sq. ft. office/tech HQ development for MCI;
- Strategic plan, site search, and develop management project of a 475,000 sq. ft. manufacturing facility for Rowe Furniture;
- A multi-state site search and strategic plan for WalMart's new 1,000,000 sq. ft. import/export facility
- Creating a JV between the College of William & Mary, a local land owner, and the Staubach Company for the development and asset management of a 300 acre mixeduse development.
- Other notable large consulting projects and clients include General Signal, Time Life, Inc., GTE, GE, TASC, Inova Health Systems, Nextel, XO Communications, Mobil, Booz Allen.

Tom received his MBA degree from Vanderbilt's Owen Graduate School of Management where he focused his studies on International Finance/Accounting and holds a Bachelor of Science degree in Finance and Quantitative Methods from the University of Alabama at Birmingham. Tom is on the Board of Directors of Joe Gibbs Youth for Tomorrow Boy's Home and he resides in Vienna, Virginia with his wife and three children.

DANIEL J. GONZALEZ

Executive Vice President



Dan is responsible for overseeing the SPI Virginia office. He has over 12 years of extensive corporate services experience where he managed and executed complex projects consisting of strategic planning/consulting, acquisition, restructuring, financing, and disposition. Dan has completed over 5 million square feet of national and international transactions with a cumulative value of in excess of \$2.5 Billion Dollars. Some recent and notable transactions include:



- MediTech 100,00 sf build to suit life science manufacturing facility, Manassas
- Telco/Excel Communications (now Telelobe) 22 site national expansion
- SEIMENS Business Communications 80,000 sq.ft. Regional Operations Center, Reston, Virginia
- E*Trade Bank 220,000 sq. ft. Headquarters, Arlington, Virginia
- PROXICOM 800,000 sq. ft. multi-site national and international expansion
- REGUS Business Centers 100,000 sq. ft. Build to Suit, Fairfax, Virginia
- RONBOTICS 80,000 sq. ft. Build to Suit, Manassas, Virginia
- Atlantic Coast Airlines 75,000 sq. ft. Headquarters, Sterling, Virginia
- Dimension Data 450,000 sq ft multi site nation lease disposition
- Dimensions International 29,000 sq. ft Headquarters, Alexandria Virginia
- RER Resources, 23,000 sq. ft. Headquarters, Reston Virginia
- Gibson Dunn & Crutcher, 147,000 sq. ft. Washington DC
- Computer Sciences Corporation, 150,000 sq ft disposition, Reston Virginia

Dan co-managed a real estate office from a 2 person, start-up operation to 15 people within 2 years producing \$6 Million in fee revenue. This operation was recently acquired and renamed Scheer Partners – Virginia. Previously, Dan was a Top Producer for The Staubach Company earning national Top Producer status in 2001.

Dan is a member of the Northern Virginia Technology Council's (NVTC), Executive Committee and Board of Directors. He is also a Founder and Trustee of the NVTC Foundation, an organization aimed at promoting community development through technology. Dan has served as NVTC's membership chairman and as chairman of the benefits and affinity program designed to offer early stage technology firms access to economical business and medical insurance and has been nominated for the NVTC's President's Award for service. Dan was a founding board member of the Washington DC Technology Council (DC Tech) and was most recently appointed to Virginia Governor Mark Warner's Biotechnology Advisory Board developed to foster biotech investment within Virginia.

Dan received his MBA from Johns Hopkins University with a focus on finance and decision science. He received his Bachelor of Science from Old Dominion University. He resides in McLean, Virginia with his wife and daughter.

HERMAN G. DIEBLER, JR.

Senior Vice President Consulting Services

Herman provides Real Estate consulting and Program Management services from project inception through delivery. Herman is mechanical engineer with more than eighteen years of construction management experience on technically distinctive projects. This includes complicated and demanding design build projects that require unusual understanding of project design and job schedule. Herman has strong experience in various technical construction types, such as research laboratories, cGMP biopharmaceutical manufacturing facilities, data centers, network operation centers, colocation facilities, hospitals, and corporate and medical office buildings.



Prior to joining Scheer Partners, Herman founded the Fairfax, VA office for DPR Construction and oversaw the office build up from 1 to 65 people and from \$10M to \$105M in construction volume in five years. Herman is a frequent speaker for ISPE and VA Bio and an active member of WBOT, NVTC, and NIAOP. He pursued an MBA from Suffolk University and a Bachelors of Science in Mechanical Engineering from the University of Rhode Island.

Relevant Professional Experience:

Biopharmaceutical and Laboratory Facilities

- \$5M Cyber Park Research Facility, Danville, VA
- \$10M Mediatech, 100,000 sf cGMP manufacturing facility, Manassas, VA
- \$25M The Institute for Genomic Research (TIGR), 122,000-sq.-ft. four-story building comprising BSL-2 wet labs, dry labs and offices and 450-space parking lot, Rockville, MD
- \$3.5M IOMAI, 12,000 sf cGMP Pilot plant and patch manufacturing facility, Gaithersburg, MD
- \$6M The Center for Advanced Genomics (TCAG), 55,000 sf research facility containing a BL-3 laboratory, Rockville, MD
- \$15M National Institutes of Health Animal Center Building 103, 27,000-sq.-ft. addition and renovation, including labs, vivarium, and offices, Poolesville, MD
- \$6M Gene Logic, 33,300-sq.-ft. laboratory and office facility, Gaithersburg, MD
- \$.8M ATCC, Vivarium facility, Manassas, VA
- \$12M Protein Design Labs Corporate Headquarters and R&D Facility, 91,800-sq.-ft. tenant improvement in two buildings, including labs, R&D, vivarium, and administration areas, Fremont, CA
- \$8M Chiron, 10,000-sq.-ft. CMF fill and finish facility and equipment installation, Emeryville, CA
- \$7M Thoratec, 61,000-sq.-ft. medical device manufacturing facility, Pleasanton, CA
- \$5M GenPharm, laboratories and animal research facilities, Mountain View, CA
- \$4M Alza, aseptic manufacturing facility tenant improvement, Palo Alto, CA
- \$4.5M Roche Molecular Systems, research laboratories, Alameda, CA

*Relevant Professional Experience, continued*

- \$3.5M Roche Bioscience, Building R-3 Renovation, 30,000-sq.-ft. vivarium renovation, Palo Alto, CA
- \$2M Raytheon, New 11,500-sq.-ft. Class 10 clean room photolithography, Mountain View, CA
- \$2M Oread, lab space renovation including fume hood hookup and process piping, Palo Alto, CA
- \$2M ExVivo Therapies, BL-3 cell collection facility, South San Francisco, CA
- \$2M Alza, laboratory and vivarium seismic upgrade, Palo Alto, CA
- \$2.5M Celtrix Pharmaceuticals, fermentation and purification suite upgrades, Santa Clara, CA
- \$2.5M Cell Genesys, 24,000-sq.-ft. laboratory and vivarium, Foster City, CA
- \$2.5M Behring Diagnostics, 14,000-sq.-ft. renovation of research chemistry and organic laboratories, San Jose, CA
- \$1M CV Therapeutics, laboratories and vivarium, Palo Alto, CA
- \$1.5M Oread, packaging line, Palo Alto, CA
- \$1.5M Norian, manufacturing laboratories and R&D facility, Cupertino, CA
- \$1.4M VaxGen Lab Facility, new BL-3 lab space for HIV research and testing, Brisbane, CA
- \$0.8M Hewlett Packard, Bio Science Laboratory, Palo Alto, CA
- \$0.3M Bio-Rad Laboratories, vivarium and laboratory conversion, Hercules, CA
- \$3M Roche Bioscience, lab renovations S2/R, Palo Alto, CA

Health Care Facilities

- \$20 Inova HealthPlex, 140,000-sq.-ft. five-story ambulatory surgery center and medical office building, Springfield, VA
- \$20M Sturdy Hospital, hospital addition and renovation including clean rooms, X-ray, and MRI installations, Boston, MA
- \$56M Harvard Medical School, medical research facility including clean rooms and complicated laboratory installations, Cambridge, MA

WAYNE P. KLOTZ

Senior Vice President, Development Services



Wayne provides Real Estate Development consulting and Program Management services from project inception through delivery. Wayne has more than twenty eight years of construction and development management experience in the commercial, industrial, medical, retail and residential projects. This includes master planned industrial parks and corporate headquarters office facilities.

Prior to joining Scheer Partners, Wayne was working on his own as an independent development and construction consultant to corporate real estate users, developers and brokerage firms. Wayne has experience in managing over 6.5 million SF of new development projects and 2.5 million SF of redevelopment projects. Managed activities include land and building due diligence, cost proformas, preparing and analyzing request for proposals for Architecture, Civil, Environmental/Geotechnical and MEP disciplines as well as for General Contractor and Subcontractor services and overseeing the design/construction and permitting processes.

Relevant Professional Experience:

New Development Projects (partial listing)

- \$25M The Institute for Genomic Research (TIGR), 5 acre, 122,000-sq.-ft. four-story building comprising BSL-2 wet labs, dry labs and offices and 450-space parking lot, Rockville, MD
- \$17M AUA (American Urological Association) 8 acre, 80,000 sf corporate headquarters office building, Linthicum, MD.
- \$5M Ronbotics, 55,000 sf corporate office, research and manufacturing facility, Manassas, VA
- \$20M ITEC (International Truck and Engine Company) 29 acre, 425,000 sf regional parts distribution facility, York, PA
- \$10M Mack Trucks, 22 acre, 350,000 SF regional parts distribution facility, Linthicum, MD.
- \$50M HP, 70 acre, 850,000 sf, 3 interconnected buildings, Inkjet and LaserJet printer manufacturing and distribution facility, Richmond, VA.
- \$18M Prologis Park Dulles, 30 acres, 7 buildings, 350,000 SF, distribution facilities for lease, Dulles, VA
- \$24M Meadowridge Park, 33 acre, 3 building, 550,000 SF industrial/distribution park, Meadowridge, MD.
- \$8M, FedEx regional office and distribution facility, 9 acres, 110,000 sf building, Crofton, MD
- \$25M, Chantilly Distribution Center, 33 acre, 500,000 SF, 2 building distribution Center, Chantilly, VA.
- \$8M, Gateway Distribution Center, 15 acre, 160,000 SF, 3 building, flex industrial park, Dulles, VA.
- \$7M, Belfort Furniture, 8 acre, 100,000 SF corporate office, warehouse and retail showroom, Sterling, VA

Re-development Projects (partial listing)

- \$6M, Coventry Health Care, Regional division headquarters, 100,000 SF, Harrisburg, PA.
- Ardmore Ardwick Business Park, 5 building, 350,000 SF flex industrial park, Lanham, MD.
- Sunnyside Business Park, 3 building, 300,000 SF flex industrial park, Beltsville, MD
- DeSoto Business Park, 4 building, 350,000 SF, flex industrial park, Baltimore, MD.
- Fleet Business Park, 6 building, 450,000 SF, flex industrial park, Springfield, VA.



Scheer Partners

A Reputation for Results



Education

Bachelor of Science,
Architectural Engineering
Virginia Polytechnic Institute
and State University

Professional Registrations

Professional Engineer,
Virginia, Florida, Indiana,
Georgia, Kentucky,
Louisiana and Texas
Structural Engineer, Illinois
Professional Engineer,
Certified for Structural in
Utah.

Virginia Tech

Committee of 100, College
of Engineering
Alumni Board, Via
Department of Civil and
Environmental Engineering
Ut Prosim Society, Virginia
Tech Foundation
Task Force for the Institute
for Critical Technology and
Applied Science
Chair, space planning study
for the College of
Engineering.

Professional Affiliations

American Consulting
Engineers Council/
Consulting Engineers
Council/Virginia, Fellow
CEC/V, Past National
Director Past President
American Concrete
Institute,
Chairman and Member
Committee 360, Design of
Slabs on Grade, Member
Committee 302, Concrete
Floor and Slab Construction

Arthur W. McKinney, P.E., S.E., FACEC

Chief Executive Officer

Professional Experience

Art has 38 years of continuous experience in design and construction. He is a licensed Professional Engineer in Virginia and other states. In 1979 Art founded McKinney and Company, a professional services company providing planning, architecture, engineering, construction management and quality assurance. The firm currently employs 85 people and has offices in Ashland and Williamsburg, Virginia. In early 2000, McKinney incorporated McKinney Internacional and opened a permanent office in the Republic of Panama.

Art provides Senior Principal level support and assists in the overall organization and control of the total project delivery system. Art's interest and experience in the high technology workplace, logistics in a global market and industrial and manufacturing systems, provides him with insight for fully integrating planning and design with construction means, methods and materials, together with contract and procurement methodologies; all to achieve overall project goals for quality, cost and schedule.

Art is recognized for his technical work in the design and construction of industrial floor slabs and the use of building systems in industrial applications. Art currently serves as chairman of the American Concrete Institute (ACI) Committee 360, Design of Slabs on Grade, and as a member of Committee 302, Concrete Floor and Slab Construction. He has contributed to the design of 100,000,000 square feet of large-scale manufacturing, industrial and commercial facilities. This includes general and special experience in structures, facility layout and design, special manufacturing systems, laboratories, refrigerated buildings, corrosive materials handling, explosion, chemical and biological containment and materials handling systems.

Representative Projects

Division of Consolidated Laboratory Services (DCLS), Commonwealth of Virginia
\$62,000,000, completed 2003, prime architect-engineer.

Screwworm Sterile Fly Production Facility, \$40,000,000, construction start 2004,
prime architect-engineer and construction manager.

Universal Leaf, Tobacco Processing Facility, Nash County, North Carolina,
\$30,000,000, completed 2003, program manager.



American Institute of Steel
Construction, Member
International Code Council
(ICC), Professional
Member
Construction Specifications
Institute, Member
National Society of
Professional Engineers,
Virginia Society of
Professional
Engineers, Member and
Past President, Richmond
Chapter
Council of American
Structural Engineers, Past
Chairman, Virginia
National Business Practices
Committee

Virginia Structural
Engineers Council, Member

Business and Other Affiliations

Virginia Foundation for
Architecture, Member,
Board of Trustees
Member, Board of Directors,
Virginia Semiconductor, Inc.
Member, Advisory Board,
BB&T Bank
Member, Hanover Board of
Building Code Appeals
Member, Virginia Business
Editorial Advisory Board

Arthur W. McKinney, P.E., S.E., FACEC (continued)

Prior to the establishment of the company in 1979, Art had eleven years experience with a multi-discipline architectural and engineering firm and designed significant projects throughout the United States as well as work in Central America and Africa, and a further two years experience with a structural engineering firm.

Community Activities

Art is a Past President of Ashland Kiwanis and co-chaired the capital campaign for the Patrick Henry YMCA. He has previously served on the Ashland Historic Zoning Committee, Ashland Economic Development Committee and has provided significant support to other local initiatives.

Art believes continuing education is important and actively attends numerous training and educational seminars each year. In addition, Art is a regular speaker for both technical and professional meetings and seminars.

Notable Speaking Engagements

"Marketable Sites and Buildings", Virginia Institute for Economic Development, (recognized as a Distinguished Faculty Member, 2000).

"Entrepreneurship" Executive MBA Program, College of William & Mary

"Construction Management Considerations for Facility Managers", Richmond Chapter, International Facility Management Association

"Engineering Considerations in Real Estate Development", Virginia Commonwealth University Graduate School of Business, February 13, 2001; February 12, 2002.

"Whose Concrete Is It Anyway?", joint meeting of Virginia Chapter, American Concrete Institute and Richmond Chapter, Construction Specifications Institute

"Economic Development: The New Basics," Building Virginia 2000



Russell H. McElroy, AIA, NCARB Life Sciences Architect

Education

Bachelor of
Architecture, Virginia
Tech

Civil Engineering,
Tennessee Tech

Professional Experience

Russell has more than 13 years of diversified experience as an architect focused on services requiring a high level of coordination between the building and its interior program. He is responsible for schematic design through project completion. Current projects concentrate on laboratory design. Russell's broad experience also includes structures involving processes that use large quantities of hazardous chemicals, cold rooms and clean rooms.

Representative Projects



DCLS

Virginia Biotechnology Research Park Authority, Division of Consolidated Laboratory Services (DCLS), Richmond, Virginia – Lead Design and Project Architect for 194,500 SF, 5 story, state-of-the-art laboratory. DCLS consists of 32 primary laboratory functions including BSL-3 and BSL-4. Laboratory test environments include virology, diagnostic bacteriology, TB isolation, necropsy, fine metals, metrology, radiation, water analysis, newborn screening and chemical and biological terrorism investigation. The BSL-4 laboratory utilizes an 8 chamber, class 3, biological safety cabinet with self-contained HEPA filtered supply and exhaust and effluent decontamination systems. The project also includes laboratory support spaces, administrative offices and a 6 level, 460-space parking deck.

Professional Registrations

Registered Architect,
Commonwealth of
Virginia #10585
National Council of
Architectural
Registration Boards
(NCARB) #54167

Professional Affiliations

American Institute of
Architects (AIA)
National Fire
Protection Association
(NFPA)

Danville Research Building, Danville, Virginia - Lead architect for the Danville Research Building, Phase I facility of a larger 20-acre campus of the Danville Cyber Park. Project involved the programming and schematic design of multiple life science buildings; construction documents and specification for the first building of approximately 40,000 SF have recently been completed.

VCU Bio-Safety Laboratory (BSL-3) Renovation, Richmond, Virginia - Lead Architect responsible for design, construction documentation, and construction administration of this laboratory space renovation. This high containment design includes complete renovation of an existing space to BSL-3 level containment, casework rework and reuse, containment barrier rework to create a laboratory envelope, specification of all major equipment such as autoclave and bio-safety cabinets, and complete coordination of mechanical, electrical, plumbing and security drawings.



Russell H. McElroy, AIA, NCARB *(continued)*



USDA/Panama Arthropod Rearing/Eradication Facility, Pacora, Panama – Lead Laboratory Planner responsible for design of primary bio-containment barrier and laboratory spaces for this \$40 million international project. Laboratory constructed for research, and method development for the eradication of arthropods (screwworm) responsible for the death of cattle, small animals, and some humans in South America.

Virginia Department of General Services/Postal Inspection Laboratory, Richmond, Virginia – Lead Architect responsible for design, construction documentation, construction administration, and construction management. Laboratory constructed for the purpose of processing all incoming postal services to the Commonwealth of Virginia Governor's Office, Department of Justice, and General Assembly. Laboratory designed to detect potential mail contamination and serve as a counter-terrorism measure to protect the Executive Branch through x-ray examination and controlled, bio-secure opening of all letter and packaged parcels prior to delivery.

Biotech 8, Virginia Biotechnology Research Park, Richmond, Virginia - Lead Architect on the design of a 28,000 SF, 2-story laboratory/ semi-conductor-capable building located within the urban campus of the VBRP .

Biobility Life Sciences Shell Concept, Lead Design Architect investigating the viability of speculative shell building design concepts relating to Biotechnology, Biomedical, Pharmaceutical and the Semi-Conductor industries.

Sun Chemical, Chesterfield, Virginia – Project architect for 54,000 SF consolidation of manufacturing facility, office and tank farm for international manufacturer of inks and coatings for graphic applications; project involved special considerations for industrial flammable processes, explosion relief and fire safety.

Richfood Holdings, Inc. Harrisburg, Pennsylvania - Provided architectural design professional services for a 96,000 SF freezer addition to an existing food distribution center. Project consisted of -10°F freezer (63,920 SF), -20°F freezer (21,884 SF), 32° F loading dock space (4,784 SF) and Class "T" machine room space (5,271 SF).



Timothy D. Baker, PE, CIPE, LEED™

Principal Engineer

Education

Bachelor of Science
in Mechanical
Engineering, The
Johns Hopkins
University
CCEE,
Environmental
Engineering, The
Johns Hopkins
University Applied
Physics Laboratory

Professional Registrations

Registered Profes-
sional Engineer: AL,
CA, CT, DC, DE, IL,
MA, MD, NC, NH, NJ,
NY, OH, PA, VA
National Council of
Engineering
Examiners Certified
LEED™ 2.0 Accredited
Certified in Plumbing
Design (CIPE)

Professional Affiliations

American Society of
Heating, Refrigeration
and Air Conditioning
Engineers (ASHRAE)
Association of Energy
Engineers (AEE)
International Society
of Pharmaceutical
Engineers (ISPE)
National Fire
Protection Association
(NFPA)
Society of Military
Engineers (SAME)

Professional Experience

Tim recently joined McKinney and Company, and offers extensive experience in the design of pharmaceutical, academic and federal laboratories. In the past 10 years, he has completed wet laboratory design for more than 3.7 million sf in 19 separate projects. Tim served as an Executive Sponsor for biology, molecular biology, chemistry air toxicology, bio-hazard, barrier containment, and forensic laboratory designs. He will continue in this capacity with McKinney and Company, serving as an overall engineering team leader.

Representative Projects

With Vanderweil Engineers:

Battelle Eastern Science and Technology (BESWT) Center, Aberdeen, Maryland – A new \$22 million, 73,000 sf facility for the Battelle Memorial Institute, one of the largest non-profit research and development firms in the world. The BEST Center is devoted to research and development for systems to protect against weapons of mass destruction, demilitarization efforts, and projects for defense against chemical or biological warfare. The facility includes 16 state-of-the-art chemistry and biology laboratories manned by 200 science and technology staff workers, as well as complete office and conference center space. A BSL-3 patent research laboratory incorporates Level II and III bio-safety cabinets.

Federal Bureau of Investigation, New Forensic Laboratory, Quantico, Virginia – Mechanical, electrical and plumbing master plan and design for a new 500,000 gsf laboratory facility. The facility includes 160,000 sf of wet laboratory space, 160,000 sf of dry lab space, and 140,000 sf of office space. All other information is confidential.

Duke University, Leon Levine Science Research Center, Durham, North Carolina – A new 340,000 sf Science Center that contains computer science, medical science, molecular biology, engineering, and environmental science facilities. The Center was chosen as the "Lab of the Year" by R&D Magazine and received the 1996 Grande Award of Excellence from the National Commercial Builders Council.

Massachusetts Institute of Technology, Biology Building, Cambridge, Massachusetts – MIT's new biology Laboratory, Building 68, expands the biology post-doctorate and graduate research and undergraduate teaching laboratories into a state-of-the-art facility, encompassing 250,000 sf, including animal housing suites, seminar rooms, offices, library, and cafeteria.


**Timothy D. Baker, PE, CIPE, LEED™ (continued)**


Yale University School of Medicine, New Haven, Connecticut – Eleven years of continuous infrastructure and MEP design services for more than 40 renovation projects, comprises a cumulative 300,000 sf. Various studies and designs include master plans, mechanical and electrical renovations and consolidation projects for several of the school's facilities throughout the campus. This was an original design for Yale School of Medicine – Division of Animal Care Master Plans, an eight phase master plan that culminated in 2004 with the opening of the 400,000 gsf new animal research facility.


Princeton University, Lewis Thomas Molecular biology Laboratory, Princeton, New Jersey – The \$29 million Lewis Thomas Laboratory for Molecular Biology contains 65 laboratories and special purpose rooms. Its 120,000 sf includes research and teaching labs, high-density equipment rooms, glass-wash facilities, BL-3 containment labs, an animal facility, greenhouses, plant growth chambers, environmental rooms, and an auditorium.


Princeton University, Moffett Laboratory, Princeton, New Jersey – The 44,000 gsf addition to the existing Moffett Laboratory houses a number of research related areas, including three floors of teaching and research laboratories, computer facilities, seminar rooms, office spaces, and an animal facility.


DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA CONSULTANT / OTHER OFFICE	RFP #		
Submitted By (Firm Name): <u>McKinney and Company</u>				
Submittal For (Project Title): <u>Commonwealth of VA, PPEA Proposal, Northern VA Forensics/OCME Facility</u>				
PC #: _____				
1) FIRM NAME AND ADDRESS: (office where work will be done) <u>McKinney and Company</u> <u>100 South Railroad Avenue</u> <u>Ashland, VA 23005</u> TELEPHONE: 804-798-1451 FAX: 804-798-7120 FEIN / SSN: 54-1763116	2) YEARS IN BUSINESS a) Years under present name..... <u>10</u> b) List other names and years: <u>McKinney & Walker (partnership)</u> <u>10</u> <u>McKinney & Walker (sole proprietorship)</u> <u>1</u> <u>McKinney & Company LP</u> <u>5</u>			
3) NAME AND ADDRESS OF PARENT COMPANY / HOME OFFICE: <u>McKinney and Company</u> <u>100 South Railroad Avenue</u> <u>Ashland, VA 23005</u> TELEPHONE: 804-798-1451 FAX: 804-798-7120	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> Sole Proprietor <input type="checkbox"/> Partnership <input type="checkbox"/> Professional Corp. <input checked="" type="checkbox"/> Other Corporation </div> <div style="width: 45%;"> <input type="checkbox"/> MBE <input type="checkbox"/> SBE <input type="checkbox"/> WBE </div> </div> Firm's APELSCIDLA License #: <u>0407-003-734</u>			
5) NAMES OF NOT MORE THAN TWO PRINCIPALS TO CONTACT: (Title and Phone Number)				
Name <u>Arthur W. McKinney, P.E.</u> <u>Franklyn B. Wilson, P.E.</u>	Title <u>Chief Executive Officer</u> <u>President</u>	Phone Number <u>804-798-1451</u> <u>804-798-1451</u>		
6) NUMBER OF PERSONNEL IN FIRM AT (1) ABOVE BY DISCIPLINE: (List each person only once)				
	<u>Licensed</u>	<u>Unlicensed</u>	<u>Draft</u>	<u>Field</u>
Project Managers	0	5		
Architects	3	3		
Civil Engineers	3	1		
Structural Engineers	4	0		
Mechanical Engineers	2	2		
Electrical Engineers	2	2		
Soils Engineer	1	1		
Landscape Architects	4	2		
Interior Designers	0	0		
Asbestos Designers	0	0		
Surveyors	0	0		
Construction Admin. / Insp.	1	0		5
CADD Operators	0	3		
Specifications	0	0		
Urban Planners	1	1		
Admin/Acctng/Business Dev/IT	0	14		
TOTALS	<u>21</u>	<u>34</u>	<u>0</u>	<u>5</u>
7) FUNCTIONS OR SERVICES TO BE PROVIDED: <u>Full Service Design</u>				
8) HAS SOMEONE IN FIRM ATTENDED THE BCOM SEMINAR ON THE CONSTRUCTION & PROFESSIONAL SERVICES MANUAL? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No IF SO, LIST NAMES AND LATEST YEAR OF ATTENDANCE.				
<u>NAME</u>		<u>YEAR</u>		
<u>John Springfield, P.E.</u>		<u>2004</u>		
<u>Joseph Keene, P.E.</u>		<u>2004</u>		
9) ON HOW MANY PROJECTS HAS THE CONSULTANT WORKED WITH THE PROPOSER IN THE LAST FIVE YEARS? _____				
10) LIMITS OF PROFESSIONAL LIABILITY INSURANCE AND DEDUCTIBLE: Professional Liability Insurance Carrier: <u>Lexington Insurance Company (Local Agent DeJarnette & Paul, Inc.)</u> Limits of Liability: <u>\$2,000,000.00</u> Deductible: <u>\$100,000.00</u> The foregoing is a statement of fact.				
Typed Name: <u>Franklyn B. Wilson, P.E.</u>		Signature: <u>[Signature]</u>		
Title: <u>President</u>		Date: <u>07-22-2005</u>		

DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA PERSONNEL QUALIFICATIONS	RFP #
Submitted By (Firm Name): <u>McKinney and Company</u>		
Submittal For (Project Title): <u>Commonwealth of VA, PPEA Proposal, Northern VA Forensics/OCME Facility</u> PC # :		
BRIEF RESUME OF KEY INDIVIDUAL PROPOSED FOR THIS PROJECT. PROVIDE ONE FORM FOR EACH PERSON.		
1) NAME: <u>Arthur W. McKinney, P.E., S.E., FACEC</u> TITLE: <u>Chief Executive Officer</u> TYPICAL DUTY OR ASSIGNMENT: <u>Principal-in-Charge</u>		
2) ASSIGNMENT FOR THIS PROJECT: <u>Principal-in-Charge</u>		
% OF TYPICAL 40 HOUR WORKWEEK THIS PERSON WOULD SPEND ON THIS PROJECT: <u>10</u> PERCENT		
3) EMPLOYEE OF: <u>McKinney and Company</u> <u>100 South Railroad Avenue</u> <u>Ashland, VA 23005</u>		
4) YEARS OF EXPERIENCE: <u>39</u> YEARS TOTAL EXPERIENCE <u>26</u> YEARS WITH THIS FIRM		
5) EDUCATION: COLLEGE / DEGREE(S) / YEAR / SPECIALIZATION: <u>Virginia Polytechnic Institute and State University - Bachelor of Science - 1966 - Architectural Engineering</u>		
6) ACTIVE REGISTRATION: Year first registered / State / Discipline or Type Professional Engineer: Virginia 1970 No. 005236, Florida 1972 No. 18173, Indiana 1971 No. 14260, Georgia 1982 No. 13449, Kentucky 1979 No. 11555, Louisiana 1994 No. 26043 and Texas 1982 No. 51560 Structural Engineer, Illinois Professional Engineer (no date shown) No. 081-004710, Certified for Structural in Utah 1994 No. 274030. COMMONWEALTH OF VIRGINIA 6-DIGIT REGISTRATION / CERTIFICATE / LICENSE NUMBER: ARCHITECT # _____ or ENGINEER # <u>005236</u>		
7) EXPERIENCE AND / OR QUALIFICATIONS RELEVANT TO THIS PROJECT: (List up to six (6) relevant projects and indicate your role and responsibility for each.)		
<u>Project</u>	<u>Role / Responsibility</u>	
<u>Division of Consolidated Laboratory Services (DCLS),</u>	<u>Commonwealth of Virginia \$62,000,000, completed 2003, prime architect-engineer.</u>	
<u>Screwworm Sterile Fly Production Facility</u>	<u>\$40,000,000, construction start 2004, prime architect-engineer and construction manager.</u>	
<u>Universal Leaf</u>	<u>Tobacco Processing Facility, Nash County, North Carolina, \$30,000,000, completed 2003, program manager.</u>	
The foregoing is a statement of fact.		
Typed Name: <u>Franklyn B. Wilson</u>	Signature: 	
Title: <u>President</u>	Date: <u>07-22-2005</u>	


DGS-30-004	ARCHITECTURAL / ENGINEERING FIRM DATA PERSONNEL QUALIFICATIONS	RFP #
Submitted By (Firm Name): <u>McKinney and Company</u>		
Submittal For (Project Title): <u>Prof A/E Services for Medical Sciences Building on MCV Campus</u> PC #: _____		
BRIEF RESUME OF KEY INDIVIDUAL PROPOSED FOR THIS PROJECT. PROVIDE ONE FORM FOR EACH PERSON.		
1) NAME: <u>Russell H. McElroy, AIA, NCARB</u> TITLE: <u>Life Sciences Architect</u> TYPICAL DUTY OR ASSIGNMENT: <u>Design Project Manager/Coordinator</u>		
2) ASSIGNMENT FOR THIS PROJECT: <u>Project Director</u> % OF TYPICAL 40 HOUR WORKWEEK THIS PERSON WOULD SPEND ON THIS PROJECT: <u>80</u> PERCENT		
3) EMPLOYEE OF: <u>McKinney and Company</u> <u>100 South Railroad Avenue</u> <u>Ashland, VA 23005</u>		
4) YEARS OF EXPERIENCE: <u>13</u> YEARS TOTAL EXPERIENCE <u>10</u> YEARS WITH THIS FIRM		
5) EDUCATION: COLLEGE / DEGREE(S) / YEAR / SPECIALIZATION: <u>Virginia Polytechnic Institute and State University, Bachelor of Architecture, 1992</u> <u>Tennessee Technological University, Civil Engineering, 1987</u>		
6) ACTIVE REGISTRATION: Year first registered / State / Discipline or Type <u>Virginia, May 2000</u> COMMONWEALTH OF VIRGINIA 6-DIGIT REGISTRATION / CERTIFICATE / LICENSE NUMBER: ARCHITECT # <u>10585</u> or ENGINEER # _____		
7) EXPERIENCE AND / OR QUALIFICATIONS RELEVANT TO THIS PROJECT: (List up to six (6) relevant projects and indicate your role and responsibility for each.)		
Project	Role / Responsibility	
<u>Virginia Biotechnology Research Park Authority, Division of Consolidated Laboratory Services (DCLS), Richmond, Virginia</u>	<u>Lead Design & Project Architect for 194,500 SF, 5 story, state-of-the-art laboratory. (32 primary laboratory functions including BSL-3 and BSL-4.)</u>	
<u>VCU Bio-Safety Laboratory (BSL-3) Renovation, Richmond, Virginia</u>	<u>Lead Architect responsible for design, construction documentation, and construction administration of this laboratory space renovation.</u>	
<u>Biotech 8, Virginia Biotechnology Research Park, Richmond, Virginia</u>	<u>Lead Architect on the design of a 28,000 SF, 2-story laboratory/semi-conductor-capable building located within the urban campus of the VBRP.</u>	
<u>USDA/Panama Arthropod Rearing/Eradication Facility, Pacora, Panama</u>	<u>Lead Laboratory Planner responsible for design of primary bio-containment barrier and laboratory spaces for this \$40 million international project.</u>	
<u>Virginia Department of General Services/Postal Inspection Laboratory, Richmond, Virginia</u>	<u>Lead Architect for design, documentation, construction administration, and construction mgmt. Lab designed to detect potential mail contamination.</u>	
<u>Danville Research Building, Danville, Virginia</u>	<u>Lead architect for the Danville Research Building, Phase I facility of a larger 20-acre campus of the Danville Cyber Park.</u>	
The foregoing is a statement of fact. Typed Name: <u>Franklyn B. Wilson, P.E.</u> Signature: <u></u> Title: <u>President</u> Date: <u>07-22-2005</u>		

DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA PERSONNEL QUALIFICATIONS	RFP #
Submitted By (Firm Name): <u>McKinney and Company</u>		
Submittal For (Project Title): <u>Prof A/E Services for Medical Sciences Building on MCV Campus</u> PC #:		
BRIEF RESUME OF KEY INDIVIDUAL PROPOSED FOR THIS PROJECT. PROVIDE ONE FORM FOR EACH PERSON.		
1) NAME: <u>Timothy D. Baker, P.E., CIPE, LEED</u> TITLE: <u>Principal Mechanical Engineer</u> TYPICAL DUTY OR ASSIGNMENT: <u>Overall Engineering Team Leader</u>		
2) ASSIGNMENT FOR THIS PROJECT: <u>Principal Engineering Director</u>		
% OF TYPICAL 40 HOUR WORKWEEK THIS PERSON WOULD SPEND ON THIS PROJECT: <u>80</u> PERCENT		
3) EMPLOYEE OF: <u>McKinney and Company</u> <u>100 South Railroad Avenue</u> <u>Ashland, VA 23005</u>		
4) YEARS OF EXPERIENCE: <u>30</u> YEARS TOTAL EXPERIENCE <u>New Hire</u> YEARS WITH THIS FIRM		
5) EDUCATION: COLLEGE / DEGREE(S) / YEAR / SPECIALIZATION: <u>Johns Hopkins University, Bachelor of Science in Mechanical Engineering, 1975</u> <u>Johns Hopkins University Applied Physics Laboratory, CCEE Environmental Engineering, 1983</u>		
6) ACTIVE REGISTRATION: Year first registered / State / Discipline or Type COMMONWEALTH OF VIRGINIA 6-DIGIT REGISTRATION / CERTIFICATE / LICENSE NUMBER: ARCHITECT # _____ or ENGINEER # <u>010200</u>		
7) EXPERIENCE AND / OR QUALIFICATIONS RELEVANT TO THIS PROJECT: (List up to six (6) relevant projects and indicate your role and responsibility for each.)		
Project	Role / Responsibility	
<u>Duke University, Leon Levine Science Research Center, Durham, N.C</u> <u>Chosen as "Lab of the Year" by R&D Magazine.</u>	<u>Lead Mechanical Engineer for 340,000 SF Science Center for computer science, medical, molecular biology, engineering, and environmental.</u>	
<u>Massachusetts Institute of Technology, Biology Building, Cambridge, MA</u> <u>Princeton University, Lewis Thomas Molecular Biology Laboratory, Princeton, NJ</u>	<u>Lead Mechanical Engineer for expanded biology post doctorate and graduate research & teaching laboratories encompassing 250,000 SF.</u> <u>Responsible for mechanical engineering design for \$29 million facility that contains 65 laboratories, BL-3 containment labs and an animal facility.</u>	
<u>Whitehead Institute for Biomedical Research, Cambridge, MA</u> <u>Yale University School of Medicine, New Haven, CT</u>	<u>Lead Mechanical Engineer for 160,000SF research facility incl approximately 80 labs & more than 100 equivalent fume hoods.</u> <u>Eleven years of continuous infrastructure and MEP design services for more than 40 renovation projects, comprising a total 300,000 SF.</u>	
The foregoing is a statement of fact.		
Typed Name: <u>Franklyn B. Wilson, P.E.</u>	Signature: 	
Title: <u>President</u>	Date: <u>07-22-2005</u>	

DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA REPRESENTATIVE PROJECT DATA	RFP #	
Submitted By (Firm Name): <u>McKinney and Company</u>			
Submittal For (Project Title): <u>Prof A/E Services for Medical Sciences Building on MCV Campus</u> PC # :			
1) PROJECT NAME: <u>Division of Consolidated Laboratory Service (DCLS), State Laboratory of Virginia</u>			
PROJECT TYPE: _____ LOCATION: <u>Richmond, Virginia</u>			
2) OWNER: <u>Virginia Biotechnology and Research Park</u>			
Project Administrator: <u>Robert T. Skunda</u> Title: <u>President & CEO</u>			
Address: <u>800 East Leigh Street</u> Phone Number: <u>804-828-5391</u>			
<u>Richmond, VA 23219</u> FAX Number: <u>804-828-8566</u>			
3) PRIME CONTRACTOR: <u>Whiting-Turner Contracting Company</u>			
Project Manager: <u>Mike Donohoe</u> Phone Number: <u>804-343-3500</u>			
Superintendent: <u>Lee Long</u> FAX Number: <u>804-343-3643</u>			
4) NAMES OF KEY DESIGNERS/PROJECT MANAGERS STILL WITH THE FIRM AND THEIR SPECIFIC PROJECT RESPONSIBILITIES:			
<u>Discipline</u>	<u>Firm / Employer</u>	<u>Individual</u>	<u>Assignment on Project</u>
Prime A/E	McKinney and Company	Tim Mills, P.E.	Project Manager
Architectural	McKinney and Company	Russell McElroy, AIA	Architect
Structural	McKinney and Company	Yusufu Leere, P.E.	Structural Engineer
Mechanical	McKinney and Company	Joe Keene, P.E.	Mechanical Engineer
Electrical	McKinney and Company	Roy Sebring, P.E.	Electrical
Civil	The Plan Source	Bhoopendra Prakash, P.E.	Civil Engineer
Landsc Arch/Planner	McKinney and Company	Robert Anderson, LA	Landscape Architect/Zoning
Special Consultant	CUH2A	Jim Riley, AIA	Lab Consultant
5) NAMES OF APPLICABLE CODES: (Place "X" in all codes that applied to this project) <u>Other (describe)</u>			
<input checked="" type="checkbox"/> VUSBC <input checked="" type="checkbox"/> BOCA <input checked="" type="checkbox"/> NFPA <input checked="" type="checkbox"/> CDC/NIH-BMBL <input checked="" type="checkbox"/> LIFE SAFETY <input checked="" type="checkbox"/> UFAS <input type="checkbox"/> ADAAG			
6) DESCRIPTION OF RELEVANT PROJECT FEATURES: McKinney provided full service design for the development of a 194,500 SF lab facility for the Div of Consolidated Laboratory Services (DCLS) completed in May 2003 on the VA Biotechnology Research park campus: 1. One of 5 Level-3 labs in National Laboratory Response Network; only State consolidated lab in country; training labs for 16 with BSL-03 isolation labs and 2 fume-hood labs; 2. 200 lab personnel perform 32 separate laboratory functions, 3.0 million scientific tests annually; 3. Vibration-free environment with capability to contain biological and chemical hazards in urban setting; also includes 460 spaces of structured parking with separate access for public parking; 4. Sustainable 50-year life cycle, heat recovery mechanical systems to reduce energy consumption reduction of VOC emissions by utilizing finishes and materials low in these elements.			
7) CONSTRUCTION DATA:			
Type: <u>Laboratory</u>	<u>PROJECT SCHEDULE:</u>		
Gross Area: <u>194,500</u> sf	Design	<u>Sched</u> 10 mos	<u>Actual</u> 10 mos
	Construction	26 mos	24 mos
Number of Floor Levels: <u>4</u>			
Owner's Budget: <u>\$48 mil(orig) \$53 (bond sale)</u>	Number of Change Orders: <u>one, owner initiated</u>		
A/E Estimate: <u>\$58 million</u>	Cost of Change Orders: <u>\$2,000,000 (add 27,000 SF)</u>		
Low Bid: <u>\$63 million</u>	Substantial Completion Date: <u>May 2003</u>		
8) DESCRIBE ANY SBE, MBE, AND WBE PARTICIPATION ON THE DESIGN PHASE (Firm, Function, and Percentage of fee). The Plan Source (MBE) for Civil Engineering (5%); NRW (WBE) for Structural related to Parking Deck (2%); Gwathmey (WBE) for interior design/furnishings (3%); Johnson Inc. (MBE) for MBE subconsultants and community involvement (4%); NXL (MBE) for survey (2%). Total 16%			
The foregoing is statement of fact.			
Typed Name: <u>Franklyn B. Wilson, P.E.</u>		Signature: 	
Title: <u>President</u>		Date: <u>07-22-2005</u>	

DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA REPRESENTATIVE PROJECT DATA	RFP #							
Submitted By (Firm Name): <u>McKinney and Company</u>									
Submittal For (Project Title): <u>Prof A/E Services for Medical Sciences Building on MCV Campus</u> PC # :									
1) PROJECT NAME: <u>Southwest Animal Health Research Foundation / USDA Sterile Screwworm Fly Rearing Facility</u>									
PROJECT TYPE: <u>Laboratory</u> LOCATION: <u>Republic of Panama</u>									
2) OWNER: <u>United States Dept of Agriculture(USDA) & USDA Sterile Screwworm Fly Rearing Facility</u>									
Project Administrator: <u>Harold C. Hofmann, Ph.D</u> Title: <u>Assistant Regional Director, USDA</u>									
Address: <u>Unit 0945 APO AA34002</u> Phone Number: <u>011 (507) 232-6709</u>									
FAX Number:									
3) PRIME CONTRACTOR: <u>McKinney and Company</u>									
Project Manager: <u>Bob Roe</u> Phone Number: <u>011 (507) 265-0165</u>									
Superintendent: <u>Richie Rickman(Whiting -Turner as contract emp / McKinney)</u> FAX Number: <u>011 (507) 265-1185</u>									
4) NAMES OF KEY DESIGNERS/PROJECT MANAGERS STILL WITH THE FIRM AND THEIR SPECIFIC PROJECT RESPONSIBILITIES:									
<u>Discipline</u>	<u>Firm / Employer</u>	<u>Individual</u>	<u>Assignment on Project</u>						
Prime A/E	McKinney and Company	Art McKinney, P.E.	Principal-in-charge						
Architectural	McKinney and Company	Bob Roe, CSP	Construction Manager						
Structural	McKinney and Company	Jonathan Taylor, AIA	Lead Architect/Design PM						
Mechanical	McKinney and Company	Yusufu Lere, P.E.	Structural Engineer						
Electrical	McKinney and Company	Joe Keene, P.E.	Mechanical Engineer						
Mechanical	McKinney and Company	Roy Sebring, P.E.	Electrical Engineer						
Civil	McKinney and Company	Mark Georgallis, CLA	Civil Engineering						
Environmental	McKinney and Company	Carl Benson, P.E.	Geotechnical Engineer						
5) NAMES OF APPLICABLE CODES: (Place "X" in all codes that applied to this project) <u>Other (describe)</u>									
<input type="checkbox"/> VUSBC <input checked="" type="checkbox"/> BOCA <input type="checkbox"/> IBC <input type="checkbox"/> SOUTHERN <input checked="" type="checkbox"/> LIFE SAFETY <input checked="" type="checkbox"/> UFAS <input checked="" type="checkbox"/> IBC									
6) DESCRIPTION OF RELEVANT PROJECT FEATURES:									
<p>McKinney is serving as the Architect/Engineer and Construction Manager for the project. The construction is valued at approximately \$40 million, not including the value of production equipment. Construction started in Feb. 2004; the first phase is scheduled for completion in December 2005. The project involves the design and construction of a laboratory facility to produce sterile screwworm flies to form a permanent biological barrier across the Isthmus of Panama. A joint venture between the USDA and a Panamanian partner (COPEG), the facility is to be designed as an environmentally compatible and biologically secure operation. The core of the program is a Production Building capable of producing 100 million sterile flies per week. The Production Building is bio-secure and includes a quality control laboratory, diet storage area, methods development area a back-up strain area.</p>									
7) CONSTRUCTION DATA:									
Type: <u>Laboratory/Adm Office/Service Buildings</u> Gross Area: <u>226,936</u> sf Number of Floor Levels: <u>3</u> Owner's Budget: <u>\$40 million</u> A/E Estimate: <u>\$37,276,000 (at DD phase)</u> Low Bid: <u>Project being bid in pieces</u>	PROJECT SCHEDULE: Design Construction	Duration (months) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Sched</th> <th>Actual</th> </tr> <tr> <td>12 mos</td> <td>12 mos</td> </tr> <tr> <td>24 mos</td> <td>N/A</td> </tr> </table>	Sched	Actual	12 mos	12 mos	24 mos	N/A	Number of Change Orders: <u>N/A</u> Cost of Change Orders: <u>N/A</u> Substantial Completion Date: <u>Feb 2006</u>
Sched	Actual								
12 mos	12 mos								
24 mos	N/A								
8) DESCRIBE ANY SBE, MBE, AND WBE PARTICIPATION ON THE DESIGN PHASE (Firm, Function, and Percentage of fee).									
The foregoing is statement of fact.									
Typed Name: <u>Franklyn B. Wilson, P.E.</u>		Signature: 							
Title: <u>President</u>		Date: <u>07-22-2005</u>							

DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA REPRESENTATIVE PROJECT DATA	RFP #	
Submitted By (Firm Name): _____			
Submittal For (Project Title): <u>Prof A/E Services for Medical Sciences Building on MCV Campus</u> PC # : _____			
1) PROJECT NAME: <u>Danville Research Building-Cyber Park</u>			
PROJECT TYPE: _____ LOCATION: <u>Danville, Virginia</u>			
2) OWNER: <u>Virginia Biotechnology and Research Park</u>			
Project Administrator: <u>Mr. M. Lyle Lacy III</u> Title: <u>Deputy City Manager</u>			
Address: <u>City of Danville, P.O. Box 3300</u> Phone Number: <u>434-799-5100</u>			
<u>Danville, Virginia 24543</u> FAX Number: _____			
3) PRIME CONTRACTOR: <u>N/A</u>			
Project Manager: <u>N/A</u> Phone Number: <u>N/A</u>			
Superintendent: <u>N/A</u> FAX Number: <u>N/A</u>			
4) NAMES OF KEY DESIGNERS/PROJECT MANAGERS STILL WITH THE FIRM AND THEIR SPECIFIC PROJECT RESPONSIBILITIES:			
<u>Discipline</u>	<u>Firm / Employer</u>	<u>Individual</u>	<u>Assignment on Project</u>
Architectural	McKinney and Company	Russell McElroy, AIA	Project Director/Architect
Structural	McKinney and Company	Yusufu Lere, P.E.	Structural Engineer
Mechanical	McKinney and Company	Joe Keene, P.E.	Mechanical Engineer
Electrical	McKinney and Company	Roy Sebring, P.E.	Electrical Engineer
Landscape Architect	McKinney and Company	Robert D. Anderson, LA	Landscape Architect
Civil Engineer	McKinney and Company	John Fogg, LA	Landscape Architect/Civil Engr
5) NAMES OF APPLICABLE CODES: (Place "X" in all codes that applied to this project) Other (describe) _____			
<input checked="" type="checkbox"/> VUSBC <input checked="" type="checkbox"/> BOCA <input type="checkbox"/> IBC <input checked="" type="checkbox"/> CDC/NIH/BMBL <input checked="" type="checkbox"/> LIFE SAFETY <input checked="" type="checkbox"/> UFAS/ADA <input checked="" type="checkbox"/> NFPA <input type="checkbox"/> _____			
6) DESCRIPTION OF RELEVANT PROJECT FEATURES:			
<p>McKinney and Company is currently engaged as the principal firm designing the Danville Research Building, Phase I facility located in the Danville Cyber Park. We have provided programming and schematic site design for multiple life science buildings. The first building to be constructed is approximately 40,000 SF, and is designed to relate to the Institute which is the only existing building on this 20-acre campus. The Phase I building provides a main entrance to the east and a quadrangle entrance to the west connecting to the Institute. Schematic site grading calls for terraced parking to follow existing contours reducing visual impact. Low-impact design of storm water management is also incorporated into the site design. The L-shaped building divides the lab wing to the north and the research wing to the south with a common node in the center. The architectural skins build on the vocabulary of materials that are complimentary of the Institute, including masonry exteriors, punched windows and metal curtain wall systems. Windows are designed to bring large amounts of natural light through the building. This project is partially funded by the Economic Development Administration.</p>			
7) CONSTRUCTION DATA:			
Type: <u>Laboratory</u> Gross Area: <u>40,000</u> sf Number of Floor Levels: _____ Owner's Budget: <u>\$5,000,000.00</u> A/E Estimate: <u>\$4.5 MILLION</u> Low Bid: <u>\$4.5 million (not yet awarded)</u>	PROJECT SCHEDULE: Design Construction	Duration (months) Sched Actual <u>5 MO</u> <u>5 MO</u> <u>12 MO</u> <u>12 MO</u>	Number of Change Orders: <u>N/A</u> Cost of Change Orders: _____ Substantial Completion Date: _____
8) DESCRIBE ANY SBE, MBE, AND WBE PARTICIPATION ON THE DESIGN PHASE (Firm, Function, and Percentage of fee).			
The foregoing is statement of fact.			
Typed Name: <u>Franklyn B. Wilson, P.E.</u>		Signature: <u>[Signature]</u>	
Title: <u>President</u>		Date: <u>07-22-2005</u>	

DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA REPRESENTATIVE PROJECT DATA	RFP #	
Submitted By (Firm Name): <u>McKinney and Company</u>			
Submittal For (Project Title): <u>Prof A/E Services for Medical Sciences Building on MCV Campus</u> PC #:			
1) PROJECT NAME: <u>Biotech 8, Virginia Biotechnology Research Park Campus</u>			
PROJECT TYPE: <u>Laboratory</u> LOCATION: <u>Richmond, Virginia</u>			
2) OWNER: <u>Virginia Biotechnology and Research Park</u>			
Project Administrator: <u>Robert T. Skunda</u> Title: <u>President</u>			
Address: <u>800 East Leigh Street</u> Phone Number: <u>(804) 828-5391</u>			
<u>Richmond, VA 23219</u> FAX Number: <u>(804) 828-8566</u>			
3) PRIME CONTRACTOR:			
Project Manager: <u>Unawarded</u> Phone Number:			
Superintendent: FAX Number:			
4) NAMES OF KEY DESIGNERS/PROJECT MANAGERS STILL WITH THE FIRM AND THEIR SPECIFIC PROJECT RESPONSIBILITIES:			
<u>Discipline</u>	<u>Firm / Employer</u>	<u>Individual</u>	<u>Assignment on Project</u>
Prime A/E	McKinney and Company	Howard M. Turner, EIT	Project Manager
Architectural	McKinney and Company	Russell McElroy, AIA	Architect
Structural	McKinney and Company	Yusufu Lere, P.E.	Structural Engineer
Mechanical	McKinney and Company	Joe Keene, P.E.	Mechanical Engineer
Electrical	McKinney and Company	Roy Sebring, P.E.	Electrical Engineer
Civil	McKinney and Company	Terry Yates, P. E.	Civil Engineer
Landscape Arch.	McKinney and Company	Robert d. Anderson, LA	Landscape Architect/Planner
5) NAMES OF APPLICABLE CODES: (Place "X" in all codes that applied to this project)			<u>Other (describe)</u>
<input checked="" type="checkbox"/> VUSBC	<input checked="" type="checkbox"/> BOCA	<input checked="" type="checkbox"/> NFPA	<input checked="" type="checkbox"/> UFAS/ADA
<input checked="" type="checkbox"/> LIFE SAFETY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> CDC/NIH-BMBL
6) DESCRIPTION OF RELEVANT PROJECT FEATURES: McKinney provided full-service design of a 25,000 SF speculative wet-lab ready shell space to be constructed in the Virginia Biotechnology Research Park campus in downtown Richmond. This innovative project will provide expanded research and development space for companies who have grown out of smaller, less capable incubator environments. Important design considerations have included flexibility for future tenants with differing upfit requirements and architectural concerns with respect to other buildings in the Biotechnology Park. Additional services have included geotechnical and environmental reports and detailed scope, schedule, and budget development. The two-story structure will allow infinite expandability and flexibility within the laboratory, clean room, and light office environment.			
7) CONSTRUCTION DATA:			
Type: <u>Laboratory</u>	<u>PROJECT SCHEDULE:</u>		
Gross Area: <u>25,000 sf</u>	Design	<u>Sched</u> <u>4 mos</u>	<u>Actual</u> <u>4 mos</u>
	Construction	<u>6 mos</u>	<u>Unknown</u>
Number of Floor Levels: <u>2</u>			
Owner's Budget: <u>\$2,026,100.00</u>	Number of Change Orders:	<u>N/A</u>	
A/E Estimate: <u>\$2,026,100.00</u>	Cost of Change Orders:	<u>N/A</u>	
Low Bid: <u>Not Bid</u>	Substantial Completion Date:	<u>N/A</u>	
8) DESCRIBE ANY SBE, MBE, AND WBE PARTICIPATION ON THE DESIGN PHASE (Firm, Function, and Percentage of fee).			
The foregoing is statement of fact.			
Typed Name: <u>Franklyn B. Wilson, P.E.</u>		Signature: 	
Title: <u>President</u>		Date: <u>07-22-2005</u>	

DGS-30-004 (Rev. 03/05)	ARCHITECTURAL / ENGINEERING FIRM DATA REPRESENTATIVE PROJECT DATA	RFP #					
Submitted By (Firm Name): <u>McKinney and Company</u>							
Submittal For (Project Title): <u>Prof A/E Services for Medical Sciences Building on MCV Campus</u> PC #:							
1) PROJECT NAME: <u>Virginia Commonwealth University Bio-Safety Laboratory (BSL-3) Renovation</u>							
PROJECT TYPE: _____ LOCATION: <u>Richmond, Virginia</u>							
2) OWNER: <u>Virginia Commonwealth University</u>							
Project Administrator: <u>Ed Gilikin, Jr., AIA</u> Title: _____							
Address: <u>VCU-FMD/Planning & Design/Design</u>							
<u>10801 Colonist Drive</u> Phone Number: <u>804-828-1912</u>							
<u>Richmond, VA 23233</u> FAX Number: <u>804-828-0006</u>							
3) PRIME CONTRACTOR: <u>Centennial Contractors</u>							
Project Manager: <u>Ray Campbell</u> Phone Number: <u>804-828-5669</u>							
Superintendent: <u>Ray Campbell</u> FAX Number: <u>804-828-5461</u>							
4) NAMES OF KEY DESIGNERS/PROJECT MANAGERS STILL WITH THE FIRM AND THEIR SPECIFIC PROJECT RESPONSIBILITIES:							
<u>Discipline</u>	<u>Firm / Employer</u>	<u>Individual</u>	<u>Assignment on Project</u>				
Prime A/E	<u>Pace Collaborative</u>	<u>Mike Newall, P.E.</u>	<u>Project Manager</u>				
Architectural	<u>McKinney and Company</u>	<u>Russell McElroy, AIA</u>	<u>Lab Architect</u>				
Structural	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>				
Mechanical	<u>Pace Collaborative</u>	<u>Mike Newall, P.E.</u>	<u>Mechanical Engineer</u>				
Electrical	<u>Pace Collaborative</u>	<u>Marty Ford, P.E.</u>	<u>Electrical Engineer</u>				
Civil	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>				
Landscape Arch	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>				
5) NAMES OF APPLICABLE CODES: (Place "X" in all codes that applied to this project)			Other (describe)				
<input checked="" type="checkbox"/> VUSBC	<input checked="" type="checkbox"/> BOCA	<input type="checkbox"/> IBC	<input checked="" type="checkbox"/> NFPA	<input checked="" type="checkbox"/> LIFE SAFETY	<input checked="" type="checkbox"/> UFAS/ADA	<input checked="" type="checkbox"/> DC/NIH/BSME	
6) DESCRIPTION OF RELEVANT PROJECT FEATURES: McKinney and Company is providing full-service design, construction documentation and construction administration for the renovation of this existing laboratory space to a higher level of bio-safety. The high containment design includes complete renovation of space to BSL-3 level containment, casework rework and reuse, containment barrier rework to create a laboratory envelope, specification of all major equipment such as autoclave and bio-safety cabinets, and complete coordination of mechanical, electrical, plumbing and security drawings.							
7) CONSTRUCTION DATA:							
Type:	<u>BSL-3 Laboratory</u>	PROJECT SCHEDULE:	<u>Sched</u>	<u>Actual</u>			
Gross Area:	<u>900 sf</u>	Design	<u>2 mo</u>	<u>2 mo</u>			
		Construction	<u>Unknown</u>	<u>Unknown</u>			
Number of Floor Levels:	<u>1</u>	Number of Change Orders:	<u>Unknown</u>				
Owner's Budget:	<u>\$150,000.00</u>	Cost of Change Orders:	<u>Unknown</u>				
A/E Estimate:	<u>\$150,000.00</u>	Substantial Completion Date:	<u>Unknown</u>				
Low Bid:	<u>Currently being bid</u>						
8) DESCRIBE ANY SBE, MBE, AND WBE PARTICIPATION ON THE DESIGN PHASE (Firm, Function, and Percentage of fee).							
The foregoing is statement of fact.							
Typed Name: <u>Franklyn B. Wilson, P.E.</u>				Signature: <u>[Signature]</u>			
Title: <u>President</u>				Date: <u>07-22-2005</u>			



McClaren, Wilson & Lawrie, Inc.

*Accommodating the constraints of today,
while encouraging a
vision of tomorrow...*

McClaren, Wilson & Lawrie, Inc. was created with a total commitment to the planning and design of civic, public safety related facilities, including forensic science laboratories, law enforcement and public safety, fire safety, and courts facilities. We provide a diverse range of technical consulting services throughout the world, with Principals and staff located in Arizona and Virginia.

Our firm is now embarking on our second decade of service. And our strategically located offices allow for superb access to clients nationally.

Our firm enjoys minimal staff change. As such, our three principals and key staff have all worked closely together for nearly two decades. Our complete focus on civic, first responder, and forensic science architecture has resulted in an almost entirely referral-based clientele. Our success is showcased by the fact that, in just the past decade, we have led master planning, needs assessments, and design for over one hundred and forty five public safety facilities in 30 states. This constitutes a multi-billion dollar legacy of public safety architecture.

Our expertise features, police headquarters and substations, police and fire training facilities forensic science & DNA laboratories, emergency operations centers, emergency communicationss centers, firearms proficiency ranges, bio-hazard mitigation facilities, evidence facilities, city halls, and municipal courts.

Our projects address a full range of organizations. Among them are large federal clients such as the FBI (its new main crime laboratory), the Department of State, and the Drug Enforcement Administration; state facilities for Alaska, Arizona, California, Florida, Hawaii, Maryland, Michigan, Minnesota, New York, Tennessee, Virginia, and Washington; some of North America's largest city law enforcement organizations, such as Los Angeles, San Diego, Seattle, Cincinnati, Dallas, Winnipeg, Honolulu, and Toronto; and numerous small town and village law enforcement organizations.

The cornerstone to our success has been a commitment to addressing constantly-changing technologies and evolving operational models. As such, our staff consistently research emerging law enforcement and forensic technology, management policy, and techniques. We also attempt to be cognizant of the many special requirements imposed by accreditation agencies (such as CALEA, ACA, NIST, OLES, POST, and ASCLD) and to evolving Federal regulatory requirements regarding health and safety.

Our Principals, James Lewis McClaren, David Guy Wilson, and Willis "Bill" Patten Lawrie, serve as lecturers throughout North America. Mr. McClaren is the only licensed architect to serve on the adjunct faculty of the International Association of Chiefs of Police, Center for Advanced Police Studies. Mr. McClaren and Mr. Wilson recently co-authored the Facilities Chapter of the Millennium Edition of Local Government Police Management for the International City Management Association. Mr. McClaren



McClaren, Wilson & Lawrie, Inc.

has also been recently selected to author the worldwide design firearms range standards for the US Marshal's service.

Our Principals lecture internationally regarding design issues involved in public safety and forensic crime laboratories. Over the past decade they have addressed the following: the International Association of Chiefs of Police (IACP), the American Society of Crime Lab Directors, the California Association of Crime Lab Directors, the British Society of Forensic Sciences, the American Academy of Forensic Science, the International Association of Law Enforcement Planners, the California Association of Property and Evidence, the National Association of Medical Examiners and the California Association of Coroners and Medical Examiners.

McClaren, Wilson and Lawrie Inc. has established a reputation for creativity and innovation in public safety facility planning and design throughout North America. Their efforts in programming and design projects range from regional public safety training campuses to urban police headquarters to suburban specialty law enforcement and fire facilities.

Mr. Wilson has made presentations to various public safety conferences such as the IACP, the AIA Committee for Justice, and multiple presentations to the International Association of Law Enforcement Planners. His Gastonia Police Headquarters was selected by the American Institute of Architects Exhibition to be showcased in its annual Excellence in Justice Facilities program.

Mr. Lawrie has served as lead planner in some of North America's most technically-demanding forensic laboratory design projects, including 62 forensic science laboratories. These include the new 507,000 square foot Federal Bureau of Investigation main national forensic laboratory, the new Tennessee Bureau of Investigations regional forensic science laboratory, and three forensic science laboratories for the Commonwealth of Virginia.

McClaren, Wilson & Lawrie, Inc. plan practical, durable, and timeless architecture.

We are a firm that sees no inconsistency between *functional* architecture and timeless *legacy* architecture.



McClaren, Wilson & Lawrie, Inc.

Willis Patten Lawrie
Principal Architect

Specialties:

- Forensic Science Laboratories
- Forensic DNA Laboratories
- Medical Examiner Facilities
- Police Facilities
- Design
- Needs Assessment
- Master Plans
- Technical Consulting
- National Security Position Clearance

Registered Architect:

- Pennsylvania
- Virginia

Education:

- Master of Architecture, Virginia Polytechnic Institute
- Bach. of Science in Architecture, The University of Virginia

Recognition Includes:

- Baltimore AIA Design Award: Design of Maryland State Police Forensic Science Laboratory
- Virginia Masonry Council Design Award, Roanoke Forensic Science Laboratory/Medical Examiners Facility
- Honorable Mention, Virginia Passive Solar Design Competition
- Strathmore's Who's Who
- The Winner of the Best of 2004 Public Building Texas Contructions Award: The Austin Forensic Center SE/SC Substation.

'Green Architecture' Recognition:

- Governors Energy Award: Arizona DPS Forensic Science Laboratory
- Virginia Solar Grant, Design of the Lawrie Residence
- Published Design Work, excerpts in "The form of Energy & The Energy of Form"

Mr. Lawrie has over 25 years of experience in the programming and design of complex building types including cutting edge full-service forensic science laboratories, forensic DNA laboratories, police ID laboratories, and medical examiner/coroner facilities. His design philosophy embraces strong user participation throughout the entire building design process, coupled with hands-on involvement in all project phases.

Over the past decade, Mr. Lawrie has led programming and design efforts for over 60 forensic science laboratories, medical examiner facilities, and police ID laboratories, of which over 30 are built or under construction. From this experience, Mr. Lawrie is keenly aware of the many design requirements and related building systems necessary in the planning of these specialized facilities. He maintains an extensive database of program and technical information as well as cost data of recently built public safety facilities throughout the United States. Mr. Lawrie provides seminars in forensic laboratory and medical examiner facility planning and design to clients nationwide. His project experience also includes a variety of project delivery approaches, including conventional design-bid, as well as design-build.

A partial list of the forensic facilities programmed and designed by Mr. Lawrie is included below. Additionally, he served as forensic laboratory design consultant for the FBI Laboratory relocation. When complete, this facility will encompass over 507,000 sf of laboratory and technical space.

Recent Forensic Science Laboratories & Medical Examiner Facilities - partial list:

- Federal Bureau of Investigation Laboratory Division: Quantico, Virginia
- Virginia Division of Forensic Science Laboratories: (3 facilities) Western Laboratory, Roanoke; Central Laboratory, Richmond; Tidewater Laboratory, Norfolk
- Virginia Office of the Chief Medical Examiner Facilities: (3 facilities) Western Facility, Roanoke; Central Facility, Richmond; Tidewater Facility, Norfolk
- Kern County District Attorney Forensic Science Laboratory: Bakersfield, California
- Dept. of Public Safety Forensic Science Laboratory: Phoenix, Arizona
- Dallas County Institute of Forensic Science Laboratory & Medical Examiner Facility: Dallas, Texas
- Sample Receipt Facility, Edgewood Chemical and Biological Center: Aberdeen Proving Ground, Maryland
- Coppin State University Forensic Academic Building for Health & Human Services & Forensic Science Laboratory Curriculum: Baltimore, Maryland
- Indiana State Police Forensic Science Laboratory: Indianapolis, Indiana
- Tennessee Bureau of Investigation Forensic Science Laboratory: (2 facilities) Central Laboratory, Nashville; and Memphis Regional Laboratory
- Middle Tennessee Postmortem Facility: Nashville, Tennessee
- Montana State Forensic Laboratory/Medical Examiner Facility: Missoula, Montana
- Phoenix Police Department Forensic Science Laboratory: Phoenix, Arizona
- Pinellas County Medical Examiner Facility & Forensic Science Center: Clearwater, Florida
- Vermont Forensic Science Laboratory: Waterbury, Vermont
- Washington State Patrol Forensic Laboratories: Seattle and Spokane Washington
- Maryland State Police Forensic Science Laboratory: Pikesville, Maryland
- Austin Police Department Forensic Laboratory: Austin, Texas
- Santa Clara County District Attorney Crime Laboratory: Santa Clara, California
- California Department of Justice Forensic Laboratories (4 facilities): Fresno, Central Valley, Riverside, and Redding, California
- Michigan State Police Forensic Science Laboratory: Grand Rapids, Michigan
- Erie County Central Police Services Forensic Laboratory: Buffalo, New York
- Oakland Police Department Forensic Laboratory: Oakland, California
- Various Police Forensic ID labs

Sacramento County Forensic Science Laboratory & Coroners Facility

Sacramento, California

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input checked="" type="checkbox"/>
Breath Alcohol	<input type="checkbox"/>
DNA/Serology	<input checked="" type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Firearms	<input checked="" type="checkbox"/>
Forensic Chemistry	<input checked="" type="checkbox"/>
Forensic Photography	<input checked="" type="checkbox"/>
Histology Lab	<input type="checkbox"/>
Lab Admin.	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input checked="" type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input checked="" type="checkbox"/>
X-Ray	<input checked="" type="checkbox"/>

McClaren, Wilson & Lawrie, Inc., staff served as specialists in the programming and design of Forensic Science Laboratory/Coroner's Facilities. We began by conducting the final Needs Assessment for the project (prior efforts had failed to adequately address key technical areas of the facility).

The Sacramento County Forensic Science Laboratory and Coroner's Facility was sorely needed to replace the existing, vastly-overcrowded, unsafe, and overburdened County complex. The new full service facility serves an eventual population in excess of 2,000,000.

The coroner's facility is equipped with much-needed additional space and modern equipment. The new six-station autopsy facility includes special bio-hazard features for homicide autopsy, a cyano acrylate chamber for bodies, and an autopsy staging area for use during periods of disaster.

Additional features include, separate decomposed autopsy facilities, x-ray room, x-ray developing, photo laboratory, histology and grossing, pathology support, transcription, and offices and administrative space for investigators and administrative staff. The coroner's toxicology service was provided by the crime laboratory.

Principal-in-Charge:
James Lewis McClaren

Construction Cost:
\$16,700,000

Consultant's Estimate:
\$23,756,000

Square Footage:
82,000

Construction Completion:
1996

Parking:
155

Client Contact:
Roger J. Robinson
Bureau of Investigations
Chief
916-732-3840

The staff at McClaren, Wilson & Lawrie, Inc. were ... "excellent to work with; they put out a high quality product. Whenever we needed them, they came running."

Roger Robinson
Acting Lab Director
Chief of Investigations
Sacramento County



Indiana State Police Forensic Science Laboratory

Indianapolis, Indiana

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input checked="" type="checkbox"/>
Breath Alcohol	<input type="checkbox"/>
DNA/Serology	<input type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Firearms	<input type="checkbox"/>
Forensic Chemistry	<input type="checkbox"/>
Forensic Photography	<input type="checkbox"/>
Histology Lab	<input checked="" type="checkbox"/>
Lab Admin.	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input checked="" type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input type="checkbox"/>
X-Ray	<input checked="" type="checkbox"/>

The Indiana State Police (ISP) Forensic Science Laboratory is full service crime laboratory serving the Central Indiana Region. Collocated with the Indiana State Department of Health and Medical Toxicology Program, the ISP forensic lab occupies a separate three story wing of the large State laboratory complex. The forensic lab wing is joined to the health/toxicology lab wing with a shared lobby, service & support functions, elevators, and restrooms. Training facilities are also shared by the entire complex.

In order to meet long range future growth needs the forensic laboratory is designed to be expandable by means of a linear expansion approach.

Additionally, to meet short range growth needs, the ISP forensic laboratory has been designed with approximately 14,000 sf of shell space distributed among the various lab units. This shell space can be unfitted incrementally as individual lab units grow to afford multiple expansion options.

McClaren, Wilson & Lawrie, Inc. conducted the needs assessment and designed the forensic laboratory in conjunction with a local architectural firm. MWL also worked in close cooperation with the health lab consulting architect in development of all aspects of the project.

Principal-in-Charge:
Willis Patten Lawrie

Square Footage:
75,000 SF

Cost Estimate:
23,000,000

Client Contact:
Major Michael Medler
8500 East 21st Street
Indianapolis, Indiana

Completion:
2005



Maryland State Forensic Science Laboratory

Pikesville, Maryland

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input type="checkbox"/>
Breath Alcohol	<input checked="" type="checkbox"/>
DNA/Serology	<input checked="" type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Firearms	<input checked="" type="checkbox"/>
Forensic Chemistry	<input checked="" type="checkbox"/>
Forensic Photography	<input checked="" type="checkbox"/>
Histology Lab	<input type="checkbox"/>
Lab Admin.	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input checked="" type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input checked="" type="checkbox"/>
X-Ray	<input type="checkbox"/>

The Maryland State Police Forensic Science Laboratory plays an integral role in fulfilling the State Police mission "as the State's lead coordinating law enforcement organization with commitment to pride, equality, respect and integrity".

McClaren, Wilson & Lawrie Inc. conducted the Needs Assessment and designed the laboratory facility in conjunction with a local architectural firm. MWL performed the work in a highly-participatory fashion, maximizing laboratory staff input.

The one-story Maryland State Police Forensic Science Laboratory building is organized into two primary laboratory wings, with entries, lobbies and shared training functions in-between these wings. Oriented with the long axis facing directly east-west, the building makes maximum use of green building principles. Clerestory natural daylight is a key feature of the laboratory office areas and access corridor along the wings, providing additional green building savings.

The building organizational concept, by design, provides multiple expansion options from the ends of each wing. All major laboratory sections, which have an imminent need for expansion can expand independently without adversely affecting the laboratory operations. Additionally, the master planning approach includes space on site for the construction of a completely new wing as well. This long-range expansion strategy will enable the State to expand its current 68,544 gross square feet to at least double this size.

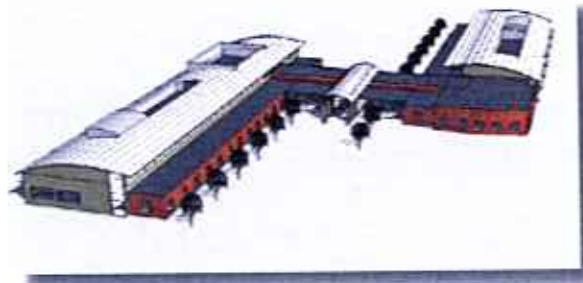
Principal-in-Charge:
Willis Patten Lawrie

Square Footage:
68,544 gsf

Construction Completion:
January 2004 (est.)

Construction Cost:
22,000,000

Client Contact:
Louis C. Porter, Ph.D.
Laboratory Director
1201 Reisterstown Road
Pikesville, MD 21208
(410) 653-4500



Central Police Services (CPS) Headquarters EOC, Regional 911, FBI Computer Crimes, Countywide Forensic Science Lab, State of New York Wireless Center

Buffalo New York

CPS Administration
Communications 911 Center
Information Systems
FBI Computer Crimes
New York State Wireless Program
Automated Fingerprint System
Emergency Operations Center

Forensic Science Laboratory:
Crime Scene Investigations
Firearms Examinations
Questioned Documents
Forensic Photography
Forensic Chemistry
Latent Prints Lab
DNA/Serology
Vehicle Exam
Training

***The new CPS Facility will
provide a host venue for
regional Law Enforcement
Training in Western New
York***

The new Central Police Services Headquarters Building represents a milestone in regional cooperation between law enforcement agencies in Western New York State.

The new headquarters houses all countywide law enforcement computer systems, Crime lab, EOC, and 911 Communications Center (serving 23 police and fire agencies).

The collaborative nature of this new building exemplified the interoperability goals of the Office of Homeland Security. This resulted in the project qualifying for federal matching funds to aid in the construction of this facility.

The high security building has five stories above grade and one story below grade. It occupies an entire city block in downtown Buffalo and will be part of a multi-building complex.

An upcoming second phase of the project will also include a regional law enforcement training center. The building has 50' setbacks around all four sides and has a protected area for utility delivery and screened vehicle access.

The high security nature of the building resulted in requests to add space for both State (New York State Wireless) and Federal (FBI Regional Computer Crimes Lab) facilities.

McClaren, Wilson & Lawrie, Inc. staff completed the comprehensive Needs Assessment and Design Program. MWL then went on to provide full consulting design services for all specialty areas, security design, and construction document, and construction administration services for the Lab, EOC and specialty areas.

Principals-in-Charge:
James Lewis McClaren
Willis Patten Lawrie

Phase 1 Construction Cost:
\$24,350,000

Phase 1 Soft Costs:
\$7,650,000

Phase 1 Square Footage:
75,102 GSF

Construction Completion:
Estimated June 2005

Client Contact:
Kevin J. Comerford
Commissioner/CPS
95 Franklin Street Room 230
Buffalo, NY 14202
716-858-6365

Prime Architect:
Cannon Design
Grand Island NY

***An Exceptional Model of
Regional Cooperation.
The new CPS building will
benefit from Homeland
Defense Funding and ad-
dresses the concepts of
sustainable architecture.***



Tennessee Bureau of Investigations (TBI) Forensic Service Division Laboratory Needs Assessment & Design

Nashville, Tennessee

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input type="checkbox"/>
Breath Alcohol	<input type="checkbox"/>
DNA/Serology	<input checked="" type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Firearms	<input checked="" type="checkbox"/>
Forensic Chemistry	<input checked="" type="checkbox"/>
Forensic Photography	<input checked="" type="checkbox"/>
Histology Lab	<input type="checkbox"/>
Lab Admin.	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input checked="" type="checkbox"/>
X-Ray	<input type="checkbox"/>

The new TBI Forensic Science Laboratory/Criminal Investigation Consolidated Facility provides state-of-the-art forensic laboratory services to the entire State of Tennessee. The forensic laboratory is co-located with the Investigative Division of TBI in a consolidated facility located on a suburban site north of Nashville at the R.S. Gass State Complex.

McClaren, Wilson & Lawrie, Inc. conducted the needs assessment for this project and designed the laboratory facility in conjunction with a local architectural firm. MWL performed the work in a highly-participatory fashion, maximizing laboratory staff input. Future space needs were projected seven years into the future.

Forensic Science Laboratory sections include Administration, Training, Evidence Processing and Storage, DNA/Serology, Trace Evidence, Forensic Chemistry, Toxicology, Firearms, Latent Prints/AFIS, Forensic Photography, Evidence, Vehicle Examination/Crime Scene, Shared & Support Services.

The study included a thorough analysis of the handling and flow of evidence through the new facility, in addition to addressing design considerations relative to biologically hazardous materials.

Principals-in-Charge:
Willis Patten Lawrie, AIA
James Lewis McClaren

Square Footage:
Consolidated facility:
145,000 gsf
Forensic Laboratory:
68,000 gsf

Construction Cost:
\$17,613,000

Client Contact:
Mr. Mark Gwyn
Laboratory Director
(615) 744-4400

Client Contact:
Don Graham
Capitol Projects
312 8th Avenue North
Tennessee Tower
Suite 1300
Nashville, TN 37243
(615) 741-6124

Construction Complete:
February, 2000



Virginia Division of Forensic Science Tidewater Regional Forensic Science Laboratory & Medical Examiner Facility

Norfolk, Virginia

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input checked="" type="checkbox"/>
Breath Alcohol	<input checked="" type="checkbox"/>
DNA/Serology	<input checked="" type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Firearms	<input checked="" type="checkbox"/>
Forensic Chemistry	<input checked="" type="checkbox"/>
Forensic Photography	<input checked="" type="checkbox"/>
Histology Lab	<input checked="" type="checkbox"/>
Lab Admin.	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input checked="" type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input checked="" type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Trace Evidence	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input type="checkbox"/>
X-Ray	<input checked="" type="checkbox"/>

The Tidewater Regional Forensic Science Laboratory set a unique precedent for being the first crime laboratory in the nation, aside from the FBI laboratory, to provide for the examination of DNA evidence. The new laboratory continues DNA testing in a combined DNA/Serology Section, with design flexibility to allow DNA to eventually absorb most of the serology spaces.

The laboratory is owned by the City of Norfolk, is leased to the State of Virginia, and is operated by the Virginia Division of Forensic Services.

The Tidewater Forensic Science Laboratory provides state-of-the-art forensic laboratory services to the Tidewater region of Virginia, which has a population of approximately 1.5 million. It was planned as a full-service laboratory for the Commonwealth's Division of Forensic Science.

The Office of the Chief Medical Examiner Facility provides scientific medico-legal investigation of suspicious deaths in the Commonwealth's Tidewater District.

The highly-specialized nature of these laboratory facilities includes unique features such as a PCR room for DNA profiling, evidence examination rooms, 75' firing range for firearms examination, a dusting room for fingerprint identification and body-dissecting stations. All areas where biologicals are handled are specially designed as bio-hazard spaces for the safety of occupants and for the avoidance of contamination of evidential materials.

Principal-in-Charge:
James Lewis McClaren

Project Mgr./Project Architect:
Willis Patten Lawrie, AIA

Construction Cost:
\$11,000,000

Square Footage:
56,000

Construction Completion:
January, 2000

Client Contacts:
Robert C. Campbell, Director
Division of Forensic Science
Tidewater Laboratory
Norfolk, Virginia
(757) 683-8327

Leaha Bush, M.D.
Assistant Chief Medical Examiner
Tidewater District Office
Norfolk, Virginia
(757) 683-8366



Laboratory Division - Federal Bureau of Investigation United States Department of Justice

Quantico, Virginia

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input type="checkbox"/>
Breath Alcohol	<input type="checkbox"/>
Computer Analysis	<input checked="" type="checkbox"/>
DNA/Serology	<input checked="" type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Forensic Science Research	<input checked="" type="checkbox"/>
Histology Lab	<input type="checkbox"/>
Investigative Operations	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input checked="" type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Trace Evidence	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input checked="" type="checkbox"/>
X-Ray	<input checked="" type="checkbox"/>

McClaren, Wilson & Lawrie, Inc. staff served as specialists in the programming and design of the new FBI Laboratory that will replace the current J. Edgar Hoover headquarters facility in Washington, D.C. This state-of-the-art laboratory serves the vital interests of the United States of America nationally and internationally. The laboratory will be staffed by 760 persons in the FBI's divisional network of administrative, investigative, forensic science, special projects, research, and training facilities.

Forensic science laboratories in the Scientific Analysis Section are devoted to the examination, analysis and identification of evidence throughout the full spectrum of the forensic sciences. Cutting edge laboratories will be designed to perform this work using the latest procedures, including DNA profiling; serological, chemical and toxicological analysis; hairs and fibers examination; firearms/toolmarks identification; elemental, metals and materials analysis; explosives and bomb reconstruction analysis as well as statistics regarding these acts of terrorism.

The Latent Prints Section includes advanced latent print analysis, automated fingerprint identification, and latest photographic techniques. The Investigative Operations Section is involved in questioned documents analysis, computer crimes, racketeering, polygraph work, and specialized photography and photo analysis.

The FBI provides advance training and conducts leading edge research through its Forensic Science Research and Training Center. The Center will focus on forensic science research, development and improvement of new forensic examination procedures, polygraph research, and other specialized research. FBI research is widely published in scientific journals.

Principal-in-Charge:
James Lewis McClaren

Senior Project Architect:
Willis Patten Lawrie, AIA

Prime A/E Firm:
HOK

Construction Cost:
\$116,400,000

Square Footage:
In excess of 506,800gsf

Construction Completion:
2004

Client Contact:
Earl Roberts
Project Director, Federal Bureau
of Investigations
(703) 632-1115



McClaren, Wilson & Lawrie, Inc.
Consultants in Public Safety Facilities © 2005

Biotech Two/Division of Forensic Science Central Laboratory: Chief Medical Examiner's Facility & State Anatomical Program

Richmond, Virginia

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input checked="" type="checkbox"/>
Breath Alcohol	<input checked="" type="checkbox"/>
DNA/Serology	<input checked="" type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Firearms	<input checked="" type="checkbox"/>
Forensic Chemistry	<input checked="" type="checkbox"/>
Forensic Photography	<input checked="" type="checkbox"/>
Histology Lab	<input checked="" type="checkbox"/>
Lab Admin.	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input checked="" type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input checked="" type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Trace Evidence	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input checked="" type="checkbox"/>
X-Ray	<input checked="" type="checkbox"/>

McClaren, Wilson & Lawrie, Inc. served as specialists in the programming and design of the Richmond Central Forensic Science Laboratory. This state-of-the-art facility is a full-service laboratory serving the Central Virginia region with a population of 1.7 million. Programs spread throughout three separate overcrowded buildings are consolidated into the new facility. This facility also includes the administrative headquarters for the State's divisional network of forensic science laboratories.

Forensic laboratory sections include administration, DNA/serology (casework analyses and databank work), trace evidence, chemistry/drug analysis, forensic toxicology, firearms, latent prints, questioned documents, forensic photography, breath alcohol, security, and evidence.

The Richmond facility houses the Virginia Academy of Forensic Science, a complete training complex devoted to training in evidence collecting and handling to law enforcement officials throughout the state. The Academy also provides training in emerging forensic examination procedures, in crime scene reconstruction and in administering breath alcohol tests. Other training facilities in the medical examiner facility allow law enforcement officials and medical students to view autopsies being performed.

The Office of the Chief Medical Examiner Facility provides scientific medico-legal investigation of suspicious deaths in the Commonwealth and provides state-wide administrative responsibilities.

The medical examiner facility also includes the State anatomical program which provides Virginia's medical schools and clinical research facilities with donated cadavers for education.

Principal-in-Charge:
James Lewis McClaren

Project Architect:
Willis P. Lawrie

Construction Cost:
\$23,000,000

Square Footage:
141,500

Construction Completion:
Spring, 1998

Client Contacts:
Marcella F. Fierro, M.D.
Chief Medical Examiner
Commonwealth of Virginia
700 North 5th Street
(804) 786-8595



Virginia Division of Forensic Science Western Regional Forensic Science Laboratory & Medical Examiner Facility

Roanoke County, Virginia

Anthropology Complex	<input type="checkbox"/>
Autopsy Complex	<input checked="" type="checkbox"/>
Breath Alcohol	<input type="checkbox"/>
DNA/Serology	<input checked="" type="checkbox"/>
Evidence	<input checked="" type="checkbox"/>
Evidence Processing/Storage	<input checked="" type="checkbox"/>
Firearms	<input checked="" type="checkbox"/>
Forensic Chemistry	<input checked="" type="checkbox"/>
Forensic Photography	<input checked="" type="checkbox"/>
Histology Lab	<input checked="" type="checkbox"/>
Lab Admin.	<input checked="" type="checkbox"/>
Latent Prints Lab	<input checked="" type="checkbox"/>
Primary Exam	<input type="checkbox"/>
Questioned Documents	<input checked="" type="checkbox"/>
Shared/Support Space	<input checked="" type="checkbox"/>
Tissue Recovery	<input type="checkbox"/>
Toxicology	<input checked="" type="checkbox"/>
Trace Evidence	<input checked="" type="checkbox"/>
Training	<input checked="" type="checkbox"/>
Vehicle Exam/Crime Scene	<input type="checkbox"/>
X-Ray	<input checked="" type="checkbox"/>

McClaren, Wilson & Lawrie, Inc. served as specialists in the programming, design, and construction of the Western Forensic Science Laboratory/Medical Examiners Facility. It was planned as a full-service laboratory for the Commonwealth's Division of Forensic Science and Office of the Chief Medical Examiner to serve the western half of Virginia.

Laboratory sections include Administration, DNA/Serology, Trace Evidence, Chemistry/Drug Analysis, Toxicology, Firearms, Latent Prints, Questioned Documents, Forensic Photography, and Security/Support Services.

The Medical Examiner facility provides scientific medico-legal investigation of suspicious deaths in the Commonwealth's Western District. Forensic pathology sections include Administration, Autopsy Complex, X-Ray Complex, and Histology Laboratory. The use of natural lighting in the autopsy facility enhances color rendition during forensic pathology procedures, as well as provides extremely high lighting intensity levels (in excess of 500-750 footcandles).

The highly-specialized laboratory facilities include a PCR room for DNA profiling, evidence examination rooms, 75' firing range for firearms examination, and dusting room for fingerprint identification and body dissecting stations. All areas where biologicals are handled were specially designed as biohazard spaces for the safety of occupants and for the avoidance of contamination of evidential materials.

Additional shared facilities include lobbies, training classrooms, and break room.

Principal-in-Charge:
James Lewis McClaren

Project Mgr/Design Architect:
Willis P. Lawrie, AIA

Construction Cost:
\$8,600,000

Construction Complete:
September, 1995

Square Footage:
56,000 gsf

Client Contact:
Steven C. Sigel
Director, Western Laboratory
Division of Forensic Science
(540) 561-6600

William Massello III, M. D.,
Assistant Chief Medical Examiner
Western District Office
Roanoke, Virginia
(540) 561-6615





Mike White

PROJECT EXECUTIVE

Mike has 20 years of construction experience on large, technically complex projects. A sample of his experience includes:

Project Role

Mike will be an active participant in steering preconstruction efforts, and will provide onsite top management involvement and commitment throughout the project. During construction, he will provide continuous operational guidance of critical path items and will ensure that appropriate resources are made available to the project team. Mike has a strong MEP engineering background which is essential in successful lab construction.

Years Experience: 20

Primary Office: Mid-Atlantic

Relevant Experience

- \$120M National Audio Visual Conservation Center, multi-phased renovation of underground facility for film storage, Culpeper, VA
- \$295M IDEC Pharmaceuticals NIMO 1, Phase 1, 496,150 sq. ft. campus, including a fermentation and purification production facility, a QC lab and administrative building, a warehouse including a central weigh/dispense area, and a central utilities building, Oceanside, CA
- \$1M Alza Corp., M-1 product tanks, Mountain View, CA
- \$7M Alza Corp., M-5 warehouse, 25,000-sf involving hazardous occupancies, Mountain View, CA
- \$20M Chiron Corp., downstream diagnostics facility, Vacaville, CA
- \$300M Glaxo Phase II Research Triangle Park, NC
- \$300M Sterling Winthrop Drug Discovery Facility, Collegeville, PA
- \$0.5M Alza Corp., M-1 processing suite upgrades, Mountain View, CA
- \$5.5M Miles Laboratories, central utilities project, Berkeley, CA
- \$6M Chiron Corp., Betaseron fill and finish lines, Emeryville, CA
- \$6M Chiron Corp., vaccines and purification suites, Emeryville, CA
- Hoffman LaRoche, various projects, Nutley, NJ
- Schering Plough, various projects, Union, NJ
- \$2M California Department of Justice DNA Crime Laboratory, 15,000-sq.ft. lab, Berkeley, CA
- \$11M Applied Immune Sciences, 117,000-sq.-ft. biotechnology manufacturing and research and development facility, Santa Clara, CA
- \$9M Turning Basin, 124,000-sq.-ft. five story office and retail building with underground parking, Richmond, VA
- \$4M Kaiser Permanente Data Center, 1200-ton expansion to central plant, Walnut Creek, CA
- \$35M Conrail Technology Center, office buildings including data center, NJ
- \$20M Wavve Communications, 60,000-sq.-ft. network operations center, Raleigh, NC
- \$35M Sterling Capital, 130,000-sq.-ft. colocation facility, Durham, NC
- \$320M White Oak Semiconductor, Fab, Central Utilities Building, Administration and Commons Building, Richmond, VA

Professional Data

Associate Degree in Mechanical Engineering, Brookdale Community College, Lincroft NJ

Bachelor of Science in Mechanical Engineering, New Jersey Institute of Technology, Newark, NJ

Member, American Society of Mechanical Engineers

Member, National Fire Protection Association

Certified Clean Room Designer



Mike Marston

SENIOR PROJECT MANAGER

Mike has 15 years of experience in the management, engineering, and construction of biotechnology, pharmaceutical, and healthcare projects, with specific knowledge of process piping systems, process controls, and HVAC systems. A sample of his experience includes:

Project Role

Mike will be responsible for coordinating design and construction team activities, and will be the primary contact for all construction matters. To protect the financial interests of both the owner and DPR, he will work closely with the preconstruction team to ensure cost and quality control throughout the project.

Years Experience: 15

Primary Office: Mid-Atlantic

Relevant Experience

- \$48M US Pharmacopeia, 325,000-sq.-ft office building with 50,000 of lab and cGMP like facilities and conference center, Rockville, MD
- \$27M Bayer Corporation, Bldg. 81 Sterile Fill and Finish Facility, ground-up, 44,000-sq.-ft. building housing Bayer's cGMP sterile filling operations (Bldg. 81 is the third building DPR has constructed on Bayer's South Properties campus), Berkeley, CA
- \$32M Bayer Corporation, South Properties Expansion, multiple projects, including a cGMP pharmaceutical packaging and warehousing facility, utility generation plant and distribution, and site development, Berkeley, CA
- \$23M Genentech, Project Venice, expansion of cGMP manufacturing facility and 100,000 sq. ft. of support areas, including a facility service area, administration, raw materials warehouse, and commons building, Vacaville, CA
- \$12M Dey Laboratories, nasal manufacturing, warehouse buildout, Napa, CA
- \$68M Wyeth-Ayerst Laboratories, 96,000-sq.-ft. influenza vaccine production facility, Marietta, PA
- \$2M Merck, Sharp and Dohme, 14,000-sq.-ft. Aids laboratory/research facility, Westpoint, PA
- \$45M Medical Center of Delaware, 400,000-sq.-ft. Christiana Hospital Expansion, Wilmington, DE
- \$20M Milton S. Hershey Medical Center, 100,000 sq. ft. of renovations and new construction of acute care hospital including pediatric units, medical units, surgical rooms, and MRI, Hershey, PA
- \$30M Jeanes Hospital, 300,000-sq.-ft. patient care center, Philadelphia, PA
- \$2M SIBAG Investment, 50,000-sq.-ft. corporate center renovations, Princeton, NJ
- \$1.5M CIGNA, 70,000-sq.-ft. Eagle Lodge conference facility and country club renovations, Philadelphia, PA
- \$60M The Franklin Institute, 200,000-sq.-ft. futures center, Omniverse Theater, Auditorium and Exhibit Space, Philadelphia, PA

Professional Data

Bachelor of Science in Civil Engineering, Engineering, and Public Policy, Carnegie-Mellon University, Pittsburgh, PA

U.S. Green Building Council (USGBC) LEEDTM 2.0 Accredited Professional



Lloyd "Flip" Salyer

GENERAL SUPERINTENDENT

Flip brings over 30 years of construction experience on large, complex construction projects around the world. He is highly regarded for his ability to successfully manage and complete challenging and logistically complex projects on time and within the budget. Experience includes:

Project Role

Flip will be the full-time onsite primary field manager for jobsite activities, including the direction and coordination of all subcontractors, DPR craftsmen and vendors. Experienced in a wide variety of construction fields, he is adept at solving problems and keeping projects on schedule. He will be on the jobsite at all times for hands-on project supervision and will be available to dedicate 100% of his time to the project.

Years Experience: 30

Primary Office: Mid-Atlantic

Relevant Experience

- \$48M US Pharmacopeia, 325,000-sq.-ft office building with 50,000 of lab and cGMP like facilities and conference center, Rockville, MD
- \$15M National Institutes of Health Animal Center Building 103, 27,000-sq.-ft. addition and renovation, including labs, vivarium, and offices, Poolesville, MD
- \$28M Vincent Lombardi Cancer Research Center and Emergency Pavilion at Georgetown University Hospital, new cancer research center and emergency pavilion, Washington, DC
- \$68M Virginia Commonwealth University, Medical Center including clinic space, research laboratory and operating theatre suites, Richmond, VA
- \$8M Fauquier County, new surgical wing/addition to hospital, Warrenton, VA
- \$77M Holy Cross Hospital, major renovation to a full-service hospital, Silver Spring, MD
- \$35M Faris Building, 40,000 sq. ft. interior and exterior renovation, Indianapolis, IN
- \$187M Torre Major, 65-story commercial office tower, Mexico City, Mexico
- \$35M The Sime Darby, new 375,000 sq. ft. word headquarters, Kuala Lumpur, Malaysia
- \$48M Federal Bureau of Investigations (FBI), new regional headquarters, Washington, DC
- \$100M The World Bank, new 625,000-sq.-ft. Class A office building, Washington, DC
- \$105M 1001 Pennsylvania Avenue, new 1,000,000-sq.-ft. office building and below grade parking, Washington, DC
- \$38M Thurman Arnold Porter, new 225,000 sq.-ft. Class A office building, Washington, DC
- \$11.4M Georgetown University, Harbin Hall, renovations to student residence, Washington, DC
- \$18M The War College, renovation at the Surface Warfare School at the Naval Air Station, Norfolk, VA
- \$26M George Washington University, new 5-story wings to each side of the historic law center, Washington, DC
- \$2.1B Kuala Lumpur MAB International Airport, new airport and garage, Penang, Malaysia
- \$110M Pentagon Row, 4-towers of residential units including retail and restaurant establishments, Arlington, VA
- \$50M IBG/Citistate Partnership, luxury mid-rise development, Washington, DC
- \$128M Lincoln Tower North & Lincoln Condominium, an 85 and a 45-story "twin" tower complex, New York, NY

Professional Data

Bachelor of Science in Civil Engineering, University of Maryland, College Park, MD

Top Secret Security Clearance, FBI, DIA, DoD

New York City Site Safety Engineer, Master Builder



Jeff Smith

AREA SUPERINTENDENT

Jeff has more than 27 years of construction experience. His experience has involved management of extensive electrical packages, coordination among all interior finishes and millwork, and delivery of complex work within strict schedule and budget constraints. A sample of his experience includes:

Project Role

Jeff's focus will be directed toward the buildings interiors and lab fit-out work. He will assist Flip with subcontractor management, safety, scheduling, and all other aspects of field management.

Years Experience: 27

Primary Office: Mid-Atlantic

Relevant Experience

- \$0.6M BioReliance, 5,000 sq. ft. serology/PCR laboratory fitout in occupied building, Rockville, MD
- \$1.3M BioReliance, cell banking rooms, Frederick, MD
- \$3.5M IOMAI Corp., laboratory and office build out in occupied building, Rockville, MD
- \$0.6M ATCC, 2,000 sq. ft. tenant fitout for vivarium facility, Manassas, VA
- \$15M National Institutes of Health Animal Center Building 103, 27,000-sq.-ft. addition and renovation, including labs, vivarium, and offices, Poolesville, MD
- \$40M National Institutes of Health, five-ton chiller renovation, Bethesda, MD
- \$60M Harry Diamond Labs, campus including R&D labs, Silver Spring, MD
- \$54M Plaza America, 278,000-sq.-ft. 13-story office building and parking garage, Reston, VA
- \$15M Centennial V, 200,000-sq.-ft. core and tenant work, Reston, VA
- \$3M Union Labor Life Building, tenant improvement, Washington, DC
- \$100M Daon Office Building, 1,000,000-sq.-ft. base building, Washington, DC
- \$60M Navy Federal Credit Union, Headquarters Expansion Phase 3, addition, conversion and phased renovation of an occupied office building involving new construction, conversion of parking garages into warehouse, storage and office space and renovation of existing offices, Vienna, VA
- \$80M Dirksen Senate Office Building, renovation, Washington, DC
- \$6M Suburban Hospital, psychiatric ward and lab renovation, Bethesda, MD
- \$10M DC General Hospital, renovation and wing addition, Washington, DC
- \$3M Walter Reed Medical Center, renovation of heating and cooling plant, Bethesda, MD
- \$7M Bethesda Naval Hospital, renovation of heating and cooling plant and cooling tower, Bethesda, MD
- \$7M DeVRY Institute of Technology, 80,000-sq.-ft. renovation, including classrooms, labs, bookstore, and student and administrative services spaces, Arlington, VA
- \$45M US Federal Court House and Parking Structure, courtrooms, Greenbelt, MD
- \$0.2M NVR, renovation to 2nd floor of occupied facility including the NVR data storage systems, McLean, VA
- \$50M Plaza America, over 100,000-sq.-ft. cable and wireless facility, Reston, VA
- \$120M AboveNet, 265,000-sq.-ft. internet services exchange center, Reston, VA

Professional Data

Coursework, Montgomery Community College, Rockville, MD

IBEW Local 26 Residential Program

IBEW Local 26 JATC Apprentice Program

OSHA 10-Hour Training



Joseph Khoury

PROJECT MANAGER

Joseph has over eight years of construction experience. A sample of his experience includes:

Project Role

Joseph will provide key field support to ensure that materials are on hand as ordered to avoid any delays or site bottlenecks. Working closely with Mike Marston, he will provide administrative support for field activities through shop drawings reviews, submittal reviews, and cost engineering.

Years Experience: 8

Primary Office: Mid-Atlantic

Relevant Experience

- \$48M US Pharmacopeia, 325,000-sq.-ft. office building with 50,000 of lab and cGMP like facilities and conference center, Rockville, MD
- \$25M The Institute for Genomic Research (TIGR), 122,000-sq.-ft. four-story building comprising BSL-2 wet labs, dry labs and offices and 450-space parking lot, Rockville, MD
- \$1.5M International Campaign for Tibet, historic renovation and addition in tight urban area, Washington, DC
- \$0.7M Level 3, 16,400-sq.-ft. SCIF and office space build-out, McLean, VA
- \$7M Democratic National Committee Headquarters, 60,000-sq.-ft. interior and exterior renovation, Washington, DC
- \$18M CarrAmerica Realty, seven-story corporate office building, Austin, TX
- \$4M Harcourt, nine floors of tenant finish-out, work performed concurrent to completion of shell, Austin, TX
- \$0.2M State Office Building, 5,000-sq.-ft. tenant finish-out, Austin, TX
- \$4.2M Seton Hospital, six-story cast-in-place parking garage, Austin, TX
- \$37M IKEA, 700,000-sq.-ft. retail and warehouse facility with below grade parking, Prince George's County, MD
- \$1M Washington Mutual Bank, interior finish-outs of 4 branches, Austin, TX
- \$67M Confidential Client, ten-story corporate office building, Austin, TX

Professional Data

Masters of Science in Civil Engineering, University of Texas at Austin, Austin, TX

Bachelor of Science in Civil and Environmental Engineering, American University of Beirut

LEED Certification



Gary DeWulf

PROJECT ENGINEER

Gary has 7 years of experience in the construction industry from project engineering to safety on the jobsite. A sample of his experience includes:

Project Role

Gary prepares bid documents, reviews subcontractor quotations, handles all subcontractor negotiations, and manages document control. He is a competent and enthusiastic team player.

Years Experience: 7

Primary Office: Mid-Atlantic

Relevant Experience

- \$120M National Audio Visual Conservation Center, multi-phased renovation of underground facility for film storage, Culpeper, VA
- \$10M Protein Design Labs, R&D and office, Newark, CA
- \$15M Genentech Bldg. 8 GPMX, manufacturing facilities, South San Francisco, CA
- \$86M Novell Campus, 750,000-sq.-ft. multi-usage campus, San Jose, CA
- \$85M Sun Microsystems, Newark Campus, Phase II, six building campus, Newark, CA
- \$80M Pixar Animation Studios, corporate headquarters, Emeryville, CA
- \$37.5M Safeway, corporate headquarters campus expansion, Pleasanton, CA
- \$20M Inova HealthPlex, 140,000-sq.-ft. ambulatory surgery center and medical office building, Franconia-Springfield, VA
- \$40M Summit Medical Center, hospital renovation, Oakland, CA
- \$20M Magnolia of Millbrae, extended living center, Millbrae, CA
- \$1M Sibley Memorial Hospital, Center for Breast Health, Washington, DC
- \$58M Tencor Instruments, 553,000-sq.-ft. corporate campus, including 75,000-sq.-ft. of class 10,000 - class 10 cleanrooms, Milpitas, CA
- \$35M Etec, tool manufacturing and office space, Hayward, CA
- \$18M Anritsu, campus expansion, Morgan Hill, CA
- \$7M DeVry Institute, 80,000-sq.-ft. renovation, including classrooms, labs, bookstore, and student and administrative services spaces, Arlington, VA
- \$110M Asian Art Museum, historical renovation, San Francisco, CA
- \$28M 1000 Van Ness, AMC Theatres, eight-story multi-usage facility, San Francisco, CA
- \$37M IKEA, 700,000-sq.-ft. retail store, including warehouse and underground parking garage, College Park, MD
- \$32M IKEA Potomac Mills, 600,000-sq.-ft. retail store, including warehouse and underground parking garage, Woodbridge, VA

Professional Data

Bachelor of Science in Political Science - Public Law, Northern Illinois University, DeKalb, IL

OSHA 10-hour and 30-hour Outreach Program Trainer

CPR and First Aid Instructor

Member, American Society of Safety Engineers



Dave Finch

PROJECT ENGINEER

Dave has over 4 years of construction experience. A sample of his experience includes:

Project Role

Dave prepares bid documents, reviews subcontractor quotations, handles all subcontractor negotiations, and manages document control. He is a competent and enthusiastic team player.

Years Experience: 4

Primary Office: Mid-Atlantic

Relevant Experience

- \$15M National Institutes of Health Animal Center Building 103, 27,000-sq.-ft. addition and renovation, including labs, vivarium, and offices, Poolesville, MD
- \$120M National Audio Visual Conservation Center, multi-phased renovation of underground facility for film storage, Culpeper, VA
- \$0.6M BioReliance, 5,000 sq. ft. serology/PCR laboratory fitout in occupied building, Rockville, MD
- \$3.5M IOMAI Corp., laboratory and office build out in occupied building, Rockville, MD
- \$3M Lafayette I, 115,000-sq.-ft. flex office building, Chantilly, VA
- \$1M DPR Construction, 11,000-sq.-ft. office tenant improvement, Falls Church, VA
- \$1.7M Arcus Data Security, 30,000-sq.-ft. interior renovation and addition of data storage center, Springfield, VA
- \$0.4M Verity, 10,365-sq.-ft. office tenant improvement, Falls Church, VA
- \$0.6M ATCC, 2,000 sq. ft. tenant fitout for vivarium facility, Manassas, VA

Professional Data

Bachelor of Science in Civil Engineering, Virginia State University and Polytechnic Institute, Blacksburg, VA



Jason Ragolia

MEP COORDINATOR

Jason has 6 years of experience in the construction industry. A sample of his experience includes:

Project Role

Jason will be actively involved in the preconstruction and construction of the project for mechanical, electrical and piping systems. He will also work closely with the estimators to analyze project costs. Our MEP coordinator and his team will also review pricing information provided by the mechanical, electrical and piping subcontractors on the project. At the project, they will assist the Project Manager in dealing with all MEP subcontractor issues.

Years Experience: 6

Primary Office: Mid-Atlantic

Relevant Experience

- \$120M National Audio Visual Conservation Center, multi-phased renovation of underground facility for film storage, Culpeper, VA
- \$8M Turning Basin, 124,000-sq ft five-story office building with underground parking, Richmond, VA
- \$5M Electronic Warfare Integration Facility, 82,000-sq ft secured two-story office building, Naval Surface Warfare Center, Dahlgren, VA
- \$20M INOVA Franconia-Springfield Medical Center, 140,000-sq ft five-story ambulatory surgery center and medical office building, Springfield, VA
- \$1.7M Emeritus Assisted Living Facility, 120-room assisted-living facility, Staunton, VA
- \$36M FBI Academy Firearms Ranges, state-of-the-art six range firearms training facility, Marine Corps Base, Quantico, VA
- \$6M Aegis Computer Center, 60,000-sq ft highly intensive mechanical and electrical two-story training facility for the Department of Navy, Naval Surface Warfare Center, Dahlgren, VA

Professional Data

Master of Science in Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA

Bachelor of Science in Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA

Member, American Society of Civil Engineers



Greg Saul

PRECONSTRUCTION MANAGER

Greg has over 16 years of extensive experience in estimating and project management. His problem solving skills help him to provide strong estimating services and project support. A sample of his experience includes:

Project Role

Greg will lead all design meetings, prepare value engineering studies and develop schedules. He will direct the estimating efforts and will be available as required during preconstruction and buyout of the project.

Years Experience: 16

Primary Office: Mid-Atlantic

Relevant Experience

- \$21M Capitol Square, renovations and additions to historic Finance and Washington Buildings in downtown Richmond, VA
- \$48M US Pharmacopeia, 325,000-sq.-ft office building with 50,000 of lab and cGMP like facilities and conference center, Rockville, MD
- \$120M Packard Humanities Institute, preconstruction for audio-visual conservation center with film nitrate lab, Culpeper, VA
- \$25M Inova Alexandria Hospital, preconstruction for addition and renovation, Alexandria, VA
- \$42M Bon Secours St. Francis Medical Center, preconstruction for 138-bed acute care hospital and medical office building, Chesterfield County, VA
- \$10M Hampton River Medical Arts Building, 95,000-sq.-ft. medical office building, Hampton, VA
- \$638M University of Southern California Hospital, Los Angeles County, CA
- \$172M University of Colorado Health Sciences, Boulder, CO
- \$66M University of Texas Health Sciences, School of Nursing, Houston, TX
- \$58M Northwest Memorial Women's Hospital, Chicago, IL
- \$38.5M Sacramento Medical Center, Sacramento, CA
- \$36M St John's Pleasant Valley Hospital, new facility, Camarillo, CA
- \$30M Denver Health, Denver, CO
- \$2.8M LaCasa Family Health, Denver, CO
- \$1M University of Mississippi Medical Center, Jackson, MS
- \$1.5M INOVA, Blood donor services, 20,000-sq.-ft. tenant improvement, Fairfax, VA
- \$200M US Department of Transportation Headquarters, preconstruction for 1,350,000-sq.-ft. base building and associated tenant work, Washington, DC
- \$2M US Census Bureau, preconstruction for new office, Washington, DC
- \$1M US Department of Transportation, preconstruction for data center, Washington, DC
- \$300M The Sabre Group, corporate headquarters, Dallas, TX
- \$21M Keystone, office building, Harrisburg, PA
- \$1.2M Forrest Office Complex, Forrest, MS
- \$2M Bank of America, 56,000-sq.-ft. high end tenant improvement, Rockville, MD
- \$2M US Secret Service Field Office, 20,000-sq.-ft. tenant improvement, Baltimore, MD
- \$2.5M Coventry Health Care, 120,000-sq.-ft. office and call center facility, Harrisburg, PA
- \$48M Trinidad Correctional Facility, Trinidad, CO

Professional Data

Bachelor of Science in Mechanical Engineering, University of Mississippi, University, MS



Christopher Gorthy

LEAD ESTIMATOR

Chris has over 6 years of construction experience. A sample of his experience includes:

Project Role

Chris is a critical player in the preconstruction phase, providing detailed project cost projections, long-lead procurement advice, purchasing assistance and schedule input. He will also provide detailed takeoffs of available drawings and provide unit costing. During the construction phase he will be responsible for project cost controls and detailed schedule information.

Years Experience: 6

Primary Office: Mid-Atlantic

Relevant Experience

- \$48M US Pharmacopeia, 325,000-sq.-ft office building with 50,000 of lab and cGMP like facilities and conference center, Rockville, MD
- \$120M National Audio Visual Conservation Center, multi-phased renovation of underground facility for film storage, Culpeper, VA
- \$25M The Institute for Genomic Research (TIGR) Building 5, 122,000-sq.-ft. four-story building comprising BSL-2 wet labs, dry labs and offices and 450-space parking lot, Rockville, MD
- \$20M John Hopkins University, Chemistry Lab, Baltimore, MD
- \$40M Center for Advanced Research in Biotechnology II, 140,000 sq. ft. research facility including BSL 2 and 3 labs, Baltimore, MD
- \$2M US Green Building Council, 5,000-sq.-ft. Interior renovation, Washington, DC
- \$21M Capitol Square, renovations and additions to historic Finance and Washington Buildings in downtown Richmond, VA
- \$200M US Department of Transportation, program management for two 12-story office buildings, Washington, DC
- \$1.5M INOVA, Blood donor services, 20,000-sq.-ft. tenant improvement, Fairfax, VA
- \$25M Inova Alexandria Hospital, preconstruction for addition and renovation, Alexandria, VA
- \$10M Brandon Oaks, preconstruction services for an assisted living center, Roanoke, Virginia
- \$11M Winchester Medical, 110,000 sq. ft., 4-story support services addition, Winchester, Virginia
- \$100M UMAB, 393,000 sq. ft., 12-story classrooms, labs and training facility for the dental school, Baltimore, MD
- \$10M Bank of America, various ground up and tenant improvement projects, locations throughout MD, VA, and DC
- \$27M Towson University, Sports Complex, Baltimore, MD
- \$36M UMBC Student Commons, 146,000 sq. ft. retail, classrooms, dining, recreation, Baltimore, MD
- \$22M Towson University, 7800 York Road, Baltimore, MD
- \$24M University of Virginia, Clark Hall, 172,000 sq. ft. classrooms, dining and auditorium, Charlottesville, VA
- \$120M University of Virginia, Darden School of Business program management, Charlottesville, VA

Professional Data

Bachelor of Science in Architecture, State University of New York at Buffalo, Buffalo, NY

LEED Accredited Professional



Michael Curreri

MECHANICAL ESTIMATOR

Michael has over 28 years of construction experience in mechanical construction and engineering including the design, estimating and project management of a variety of mechanical systems. A sample of his experience includes:

Project Role

Michael will perform value engineering, estimating, and budgeting functions for the Mechanical activities of the project. He is particularly skilled in accurately forecasting and controlling costs on technically intensive projects.

Years Experience: 28

Primary Office: Mid-Atlantic

Relevant Experience

- \$21M Capitol Square, renovations and additions to historic Finance and Washington Buildings in downtown Richmond, VA
- \$48M US Pharmacopeia, 325,000-sq.-ft. office building with 50,000 of lab and cGMP like facilities and conference center, Rockville, MD
- \$120M Packard Humanities Institute, preconstruction for audio-visual conservation center with film nitrate lab, Culpeper, VA
- \$0.6M BioReliance, 5,000 sq. ft. serology/PCR laboratory fitout in occupied building, Rockville, MD
- \$1.3M BioReliance, cell banking rooms, Frederick, MD
- \$25M The Institute for Genomic Research (TIGR) Building 5, 122,000-sq.-ft. four-story building comprising BSL-2 wet labs, dry labs and offices and 450-space parking lot, Rockville, MD
- \$15M National Institutes of Health Animal Center Building 103, 27,000-sq.-ft. addition and renovation, including labs, vivarium, and offices, Poolesville, MD
- \$17M Genentech, 24,500-sq.-ft. class 100 and 10,000 clean room final fill and finish facility, South San Francisco, CA
- \$7M Alza, 24,000-sq.-ft. M-5 pharmaceutical facility, Mountain View, CA
- \$3.5M Roche Diagnostics, 30,000-sq.-ft. R-3 animal facility renovation, Palo Alto, CA
- \$6M Gene Logic, 33,000-sq.-ft. office and laboratory facility, Gaithersburg, MD
- \$1.4M VaxGen Lab Facility, new lab space for HIV research and testing, Brisbane, CA
- \$20M Inova HealthPlex, 140,000-sq.-ft. five-story ambulatory surgery center and medical office building, Alexandria, VA
- \$25M Inova Alexandria Hospital, preconstruction services for hospital renovation and addition, Alexandria, VA
- \$9.9M St John's Hospital and Health Center, central plant renovation and three megawatt cogeneration unit installation, Santa Monica, CA
- \$14.4M Presbyterian Intercommunity Hospital, 100,000-sq.-ft. central plant upgrade and foundation health pavillion addition, Whittier, CA
- \$130M Los Angeles City Hall, seismic retrofit, Los Angeles, CA
- \$1M US Department of Transportation, preconstruction for data center, Washington, DC

Professional Data

Bachelor of Science in Mechanical Engineering, New Jersey Institute of Technology, Newark, NJ

Member, American Society of Mechanical Engineers (ASME)

Member, American Society of Heating, Refrigeration and Air Conditioning Engineers

Member, American Society of Energy Engineers (ASEE)

Member, International Society of Pharmaceutical Engineers (ISPE)



Frank Jenkins

ESTIMATOR

Frank has more than 26 years of experience working for both electrical contractors and construction management firms. A sample of his experience includes:

Project Role

Frank will perform value engineering, estimating, and budgeting functions for the electrical activities of the project. He is particularly skilled in accurately forecasting and controlling costs on technically intensive projects.

Years Experience: 17

Primary Office: Mid-Atlantic

Relevant Experience

- \$21M Capitol Square, renovations and additions to historic Finance and Washington Buildings in downtown Richmond, VA
- \$48M US Pharmacopeia, 325,000-sq.-ft office building with 50,000 of lab and cGMP like facilities and conference center, Rockville, MD
- \$120M Packard Humanities Institute, preconstruction for audio-visual conservation center with film nitrate lab, Culpeper, VA
- \$80M NIH Building 50 laboratory and office space, Bethesda, MD
- \$250M Glaxo, 150,000 sq. ft. pharmaceutical headquarters, Research Triangle Park, NC
- \$70M NIH Building 49, laboratory and office building, Bethesda, MD
- \$28M Center for Nanoscale Materials Spallation Neutron Source, Oak Ridge, TN
- \$26M Argonne National Labs, Argonne, IL
- \$1.5M INOVA, Blood donor services, 20,000-sq.-ft. tenant improvement, Fairfax, VA
- \$25M Inova Alexandria Hospital, preconstruction for addition and renovation, Alexandria, VA
- \$10 Brandon Oaks, 90,000-sq.-ft assisted living center, Roanoke, VA
- \$355M Northwestern Memorial Hospital, 1.9M sq. ft., Chicago, IL
- \$55M Fair Oaks Hospital, VA
- \$25M Washington Metropolitan Transit Authority, Washington, DC
- \$18M National Theatre, historic renovation, Washington, DC
- \$10M Potomac Electric Power Plant
- \$85M Union Station, electrical restoration in historic building, Washington, DC
- \$38M Ballston Common Mall, Arlington, VA
- \$25M Marley Station Mall, MD
- \$25M McDonnell Douglas, Tomahawk Missile Factory, FL
- \$42M Lafayette Center, Washington, DC
- \$48M Prince Georges County Federal Courthouse, Greenbelt, MD

Professional Data

Certificate, Maryland Drafting Institute

COMMONWEALTH OF VIRGINIA

STANDARD FORM

FOR

CONTRACTOR'S STATEMENT

OF QUALIFICATIONS

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CONTRACTOR'S STATEMENT OF QUALIFICATIONS

I. General Information

1. Submitted to (agency): **Department of Forensic Science**

Address: **700 North Fifth Street
Richmond, VA 23219**

2. Name of Project (if applicable):
and Project Code Number PC#

**Unsolicited Phase 1 PPEA Proposal
Northern Forensics / OCME Facility**

3. Type of work you wish to qualify for:

☒ **General Construction**
Mechanical
Electrical
Other
Specify:

4. Contractor's Name: **DPR Construction, Inc.**

Mailing Address: **2941 Fairview Park Drive
Suite 600
Falls Church, VA 22042**

Street Address: (If not the same as mailing address)

Telephone Number: **(703) 698-0100**

Facsimile Number: **(703) 698-1710**

Contact Person: **Mike Broughton**

Contact Person Phone Number: **(804) 363-1209**

State Contractor's License Number: **2705 035043A**

Designated Employee Registered with the Virginia Board for Contractors: **Mike Broughton**

General Information (continued)

5. Check type of organization:

Corporation	<u>✓</u>	Partnership
Individual	<u> </u>	Joint Venture
Other		

6. If a corporation -

State of Incorporation: **California**

Date of Incorporation: **July 1, 1990**

Federal I.D. #: **77-0252693**

<u>Officers</u>	<u>Name</u>	<u>Years in Position</u>
President:	Doug Woods	15
Vice President	Peter Nosler	15
Secretary	Ron Davidowski	15
Treasurer	Sandra Waechter	3
Are you a Subchapter S Corporation? Yes <u>✓</u>		No

7. If a partnership -

Date organized:

Type of partnership:

List of General Partners:

<u>Name</u>	<u>Phone #</u>	<u>Years as G.P.</u>
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8. If individually owned -

Years in Business:

General Information (continued)

9. Have you ever operated under another name? Yes _____ No ✓

If yes -

Other name:

Number of years in business under this name:

State license number under this name:

II. Bonding

Please have your Bonding Company execute a statement similar to the one at Attachment 1 and attach the completed and signed statement as Attachment 2 to this completed G.S. Form E&B CO-16

1. Bonding Company's name: **CAN & Arch**
Address: **c/o Willis Construction Practice Group
1441 Main Street, Suite 806
Columbia, SC 29201**

Representative (Attorney-in-fact): **Mr. James M. Maloney**

2. Is the Bonding Company listed on the United States Department of the Treasury list of acceptable surety corporations?

Yes ✓ No

3. Is the Bonding Company licensed to transact fidelity and surety business in the Commonwealth of Virginia?

Yes ✓ No

III. Judgments

In the last ten years, has your organization, or any officer, director, partner or owner, had judgments entered against it or them for the breach of contracts for construction?

Yes _____ No ✓

If yes, please on a separate attachment, state the person or entity against whom the judgment was entered, give the location and date of the judgment, describe the project involved, and explain the circumstances relating to the judgment, including the names, addresses and phone numbers of persons who might be contacted for additional information.

IV. Convictions and Debarment

If you answer yes to any of the following, please on a separate attachment, state the person or entity against whom the conviction or debarment was entered, give the location and date of the conviction or debarment, describe the project involved, and explain the circumstances relating to the conviction or debarment, including the names, addresses and phone numbers of persons who might be contacted for additional information.

1. In the last ten years, has your organization or any officer, director, partner, owner, project manager, procurement manager or chief financial officer of your organization:
 - a. ever been fined or adjudicated of having failed to abate a citation for building code violations by a court or local building code appeals board?
Yes _____ No ✓
 - b. ever been found guilty on charges relating to conflicts of interest?
Yes _____ No ✓
 - c. ever been convicted on criminal charges relating to contracting, construction, bidding, bid rigging or bribery?
Yes _____ No ✓
 - d. ever been convicted: (i) under Va. Code Section 2.2-4367 et seq. (Ethics in Public Contracting); (ii) under Va. Code Section 18.2-498.1 et seq. (Va. Governmental Frauds Act); (iii) under Va. Code Section 59.1-68.6 et seq. (Conspiracy to Rig Bids); (iv) of a criminal violation of Va. Code Section 40.1-49.4 (enforcement of occupational safety and health standards); or (v) of violating any substantially similar federal law or law of another state?
Yes _____ No ✓
2. Is your organization or any officer, director, partner or owner currently debarred from doing federal, state or local government work for any reason?
Yes _____ No ✓

V. Compliance-

If you answer yes to any of the following, please on a separate attachment give the date of the termination order, or payment, describe the project involved, and explain the circumstances relating to same, including the names, addresses and phone numbers of persons who might be contacted for additional information.

1. Has your organization:
 - a. ever been terminated on a contract for cause?
Yes _____ No ✓
 - b. within the last five years, made payment of actual and/or liquidated damages for failure to complete a project by the contracted date?
Yes _____ No ✓
2. Has your organization, in the last three years, received a final order for willful and/or repeated violation(s) for failure to abate issued by the United States Occupational Safety and Health Administration or by the Virginia Department of Labor and Industry or any other government agency?
Yes _____ No ✓
3. Have any Performance or Payment Bond claims ever been paid by any surety on behalf of your organization?
Yes _____ No ✓

VI. Experience-

If your organization has multiple offices, provide the following information for the office that would handle projects under this prequalification. If that office has limited history, list its experience first.

1. Attach a list of all projects, giving address, size and dollar value for each, that your organization has **completed** in the last five years. Provide for each, the name, address, and phone number, for the Owner's and Architect's contact or representative.

Please see attached project list.

2. Attach a list of your organization's projects **in progress**, if any, at the time of this statement. At a minimum, provide project names and addresses, contract amounts, percentages complete and contact names and numbers for the architects and owners.

Please see attached project list.

3. If this statement is for a particular project, identify three projects from those identified in 1 and 2 above which are most relevant or similar to the project(s) for which you are seeking prequalification.

Experience (continued)

Job 1.

Name: **Capitol Square Finance and Washington Buildings**

Address: **203 Governors Street, Trailer A
Richmond, VA 23219**

Size of Project such as: (gross square feet, height, or stories plus sub-surface levels, total cost)

**Finance Building – 50,000-sq.-ft renovation and 50,000-sq.-ft. addition
Washington Building – 14-story, 126,667-sq.-ft.**

Owner's Name: **Trammell Crow Company**

Address: **8444 Westpark Drive
Suite 300
McLean, VA 22102**

Phone Number: **(703) 288-2572**

Contact: **Ray Goins**

Architect's Name: **Baskerville Architects**

Address: **101 South 15th Street
Suite 200
Richmond, VA 23219**

Phone Number: **(804) 343-1010**

Contact: **Brent Farmer**

Final or current Contract Amount: **\$33 million**

Project Description, i.e., function of building and component building systems:

This two phased project, through the PPEA program, involves the renovation and addition to the historic Finance Building (50,000 sq. ft. renovation to a building dating from the late 1800's including a \$1million abatement package and a 50,000 sq. ft. addition) and the renovation of the 14-story Washington Building all on the Capitol Square in downtown Richmond.

Experience (continued)

Job 2.

Name: **Library of Congress – National Audio Visual Conservation Center**

Address: **19053 Mount Pony Road
Culpeper, VA 22701**

Size of Project such as: (gross square feet, height, or stories plus sub-surface levels, total cost)

425,000-sq.-ft.

Owner's Name: **Hanscomb, Faithful, & Gould**

Address: **1725 Duke Street
Alexandria, VA 22314**

Phone Number: **703-759-0086**

Contact: **David Clark**

Architect's Name: **SmithGroup**

Address: **1825 Eye Street, NW
Suite 250
Washington, DC 20006**

Phone Number: **(202) 974-4595**

Contact: **Ted Manos**

Final or current Contract Amount: **\$120 million**

Project Description, i.e., function of building and component building systems:

This project consisted of preconstruction and construction services for the complete renovation of a decommissioned underground Federal Reserve facility, as well as the construction of five additional buildings. The additional buildings are designed to house and conserve the national audio and visual archive for the Library of Congress and other supporting facilities. This project will have a complete new green roof system both as part of the renovated areas, and new areas of approximately 229,984 sq. ft. or almost 5.5 acres.

Experience (continued)

Job 3.

Name: **US Pharmacopeia**

Address: **12601 Twinbrook Parkway
Rockville, MD 20852**

Size of Project such as: (gross square feet, height, or stories plus sub-surface levels, total cost)

420,000-sq.-ft.

Owner's Name: **Orr Partners**

Address: **3110 Fairview Park Drive
Suite 1100
Falls Church, VA 22042**

Phone Number: **(703) 289-2100**

Contact: **Michael Bynum**

Architect's Name: **HOK**

Address: **3223 Grace Street, NW
Washington, DC 20007**

Phone Number: **(202) 339-8700**

Contact: **Walter Urbanek**

Final or current Contract Amount: **\$48 million**

Project Description, i.e., function of building and component building systems:

After tackling preconstruction services for the consolidation of nearly 140,000 sq. ft. of laboratory and office space for U.S. Pharmacopeia (USP), DPR is now beginning construction of the complex, ground-up biotech facility. The fast-track project consists of two structures, a four-story office/lab building and a state-of-the-art conference center, spanned over a three-level, 120,000 sq. ft. below-grade garage.

4. Describe how your firm would staff this project:

Please see original submission for organizational chart and staff roles and responsibilities.

5. Provide, as an attachment, a brief resume for the project manager and the superintendent most likely to be assigned to this project. Describe, for each, the background and experience that would qualify him or her to be a project manager or superintendent. Include in the resumes at least three (3) similar or comparable projects on which the proposed project manager and superintendent have served in that capacity or positions of similar or comparable responsibility within the last five years and the names, addresses and phone numbers of the Owner's and Architect's contact person for each.

Resumes can be found in original submission.

VII. Signatures

The undersigned certifies under oath that the information contained in this Statement of Qualifications and attachments hereto is complete, true and correct as of the date of this Statement.

DPR Construction, Inc.

(name of entity submitting this Statement of Qualifications)

By: Name of Signer (print) Jeffrey B. Vertucci

[Signature]
Signature

Title: Regional Manager

Date: July 20, 2005

Notary

State of Virginia

County/City of Fairfax

Subscribed and sworn to before me this 27th day of July, 2005.

[Signature]
Notary Public Signature

My commission expires: September 30, 2007

Notary Seal:



Attachments:

1. Owner's Qualification Criteria
2. Surety Statement
3. Additional information, if any, provided under Sections III, IV, V
4. Additional information provided under Section VI

Attachment 1
OWNERS QUALIFICATION CRITERIA

ATTACHMENT NUMBER ONE

QUALIFICATION CRITERIA FOR

(insert project title)

P. C. # _____ - _____ (insert agency code, project code and sub-code)

I. BONDING:

Contractor can secure bonding for this project in an amount equal to or greater than the amount established by the agency from a surety company (1) listed in the United States Department of Treasury, Federal Register, **Circular 570: Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies;** and (2) licensed to transact fidelity and surety business in the Commonwealth of Virginia .

II. EXPERIENCE:

Firm Experience:

The contractor or contractor's office that will handle this project has undertaken **at least three (3) construction projects of similar or comparable scope** (_____ gross square feet); stories (_____); function (_____) and dollar cost

(\$ _____) or similar building system components; foundation

(_____); structural (_____) exterior wall (_____);

roofing system: electrical service (_____); electrical distribution; heating system (_____) air conditioning

system (_____); case work (_____) laboratory gases (_____); kitchen equipment

(_____), etc. **within the last five years.** The projects shall be sufficiently comparable so that the agency may conclude that the contractor is familiar with and capable of handling the project(s) described in the prequalification. **See Below:**

3 Projects in Last 5 Years			
Project	US Pharmacopeia	Library of Congress	The Institute for Genomic Research
GSF	157,000 sf	395,000 sf	129,000 sf
\$	\$48 million	\$120 million	\$32 million
Building Type	Lab & conference center for USP in Rockville, MD	New audio visual conservation center for the Library of Congress in Culpeper, VA	Building 5 on the TIGR Campus consisting of wet & dry labs & admin space in Rockville, MD
Building Composition			
Stories	5-stories	2-stories	4-stories
Structure	Cast-in-Place Concrete	Cast-in-Place Concrete	Structural Steel
Exterior Wall	Precast & Glass	Architectural Concrete	Brick & Glass
Roofing	Standing Seam, EDPM	"Green Roof"	Concrete Shingle, EDPM
Casework	Lab & High End Woodwork	Lab & High End Millwork	Lab Casework & Architectural Woodwork
Kitchen	Kitchen for Conference Center	N/A	N/A
MEP	State of the Art Lab MEP	State of the Art Lab MEP	State of the Art Lab MEP

Key Personnel Experience:

The Project Manager most likely to be assigned to this project has **served as project manager on at least three (3) projects in the last five years of similar or comparable scope, one of those within the past two years.** (____ gross square feet); stories (____); function (____) and dollar cost (\$____) or similar building system components; foundation (____); structural (____); exterior wall (____); roofing system: electrical service (____); electrical distribution; heating system (____) air conditioning system (____); case work (____) laboratory gases (____); kitchen equipment (____), etc. Equivalent or comparable experience may be considered, at the agency's sole discretion; however, it shall be sufficiently similar so that the agency may conclude that the proposed Project Manager is familiar with and capable of handling the project(s) described in the prequalification.

The superintendent most likely to be assigned to this project has **served as superintendent on at least three (3) projects in the last five years of similar or comparable scope** (____ gross square feet); stories (____); function (____) and dollar cost (\$____) or similar building system components; foundation (____); structural (____) exterior wall (____); roofing system: electrical service (____); electrical distribution; heating system (____) air conditioning system (____); case work (____) laboratory gases (____); kitchen equipment (____), etc. Equivalent or comparable experience may be considered, at the agency's sole discretion; however, it shall be sufficiently similar so that the agency may conclude that the proposed Superintendent is familiar with and capable of handling the project(s) described in the prequalification.

See Below:

Project Manager: Mike Marston			
Project	US Pharmacopeia	Bayer	Genentech
GSF	157,000 sf	111,000 sf	100,000 sf
\$	\$48 million	\$32 million	\$23 million
Building Type	Lab & conference center for USP in Rockville, MD	cGMP lab & pharma manufacturing facility	cGMP lab & support facility with admin space
Building Composition			
Structure	Cast-in-Place Concrete	Structural Steel	Structural Steel
Exterior Wall	Precast & Glass	Precast & Glass	Masonry & Glass
Roofing	Standing Seam, EDPM	Built Up	EDPM
Casework	Lab & High End Woodwork	Lab & High End Millwork	Lab Casework & Architectural Woodwork
Kitchen	Kitchen for Conference Center	N/A	N/A
MEP	State of the Art Lab MEP	State of the Art Lab MEP	State of the Art Lab MEP

Superintendent: Flip Salyer			
Project	US Pharmacopeia	National Institutes of Health	Vincent Lombardi Cancer Center
GSF	157,000 sf	51,000 sf	122,000 sf
\$	\$48 million	\$15 million	\$28 million
Building Type	Lab & conference center for USP in Rockville, MD	Vivarium & research labs for NIH	Cancer research labs & emergency pavilion at Georgetown Hospital
Building Composition			
Structure	Cast-in-Place Concrete	Cast-in-Place Concrete	Structural Steel
Exterior Wall	Precast & Glass	Brick & Glass	Brick & Glass

Roofing	Standing Seam & EDPM	EDPM	Standing Seam & EDPM
Casework	Lab & High End Woodwork	Lab & High End Millwork	Lab & Medical Casework & Millwork
Kitchen	Kitchen for Conference Center	N/A	N/A
MEP	State of the Art Lab MEP	State of the Art Lab MEP	State of the Art Lab MEP

III. JUDGMENTS:

Any judgment(s), whether one or several, entered against the contractor for breach of contract for construction within the past ten (10) years may be grounds for denying prequalification, at the agency's sole discretion, after due consideration of the date(s), amount(s), facts and circumstances.

IV. SUBSTANTIAL NON-COMPLIANCE:

Any of the following may be grounds for denying prequalification, at the agency's sole discretion, after review and consideration of the dates, facts and circumstances.

The contractor:

- in the last three (3) years has **received a final order for failure to abate or for a willful violation** by the US OSHA or by the Virginia Department of Labor and Industry or any other government agency; or,
- has **paid liquidated damages** for failure to complete a project by the contracted date on more than two (2) projects in the last five (5) years; or,
- has **paid actual damages** resulting from failure to complete a project by the contacted date on more than two (2) projects in the last five (5) year;or
- has **been terminated** for cause on a contract in the last five (5) years; or
- was **more than thirty (30) days late, without good cause**, in achieving the contracted substantial completion date where there was no liquidated damage provision on more than two (2) projects in the last three (3) years; or
- has **received more than two (2) cure notices** on a single project in the past two (2) years and/or more than one (1) cure notice on five (5) separate projects in the past five (5) years (see Sections 19d and 41 of General Conditions); or
- has **had repeated instances** on a project of **installation and workmanship deviations which exceed the tolerances in the standards referenced** in the contract documents. Documentation of such instances shall be the written reports and records of the owner's representatives on the project; or
- has **finally completed a project** more than 90 days after achieving substantial completion on two (2) or more projects in the last three (3) years , for reasons within the contractor's control. Documented delay of delivery of material necessary to perform remaining work or seasonal conditions that bear on performing the work or operating specific equipment or building systems shall be considered in mitigation; or

- has had **Performance or Payment Bond claims paid on its behalf** in the last three (3) years.

NOTE: *If the agency intends to deny prequalification based on any of the above, it shall obtain written documentation evidencing same, pursuant to Section 2.2-4317 of the Code of Virginia, prior to such denial.*

V. CONVICTIONS:

Any of the following may be grounds for denying prequalification, at the agency's sole discretion, after review and consideration of the dates, facts and circumstances.

The contractor or any officer, director, project manager, procurement manager, chief financial officer, partner or owner of the construction company in the past ten (10) years:

- a) has **been convicted** on charges relating to **conflicts of interest**;
- b) has **been convicted** on charges relating to any **criminal activity** relating to contracting, construction, bidding, bid rigging or bribery;
- c) has **been convicted** on charges relating to **employment of illegal aliens** on construction projects.
- d) has **been convicted**: (i) under Va. Code Section 2.2-4367 et seq. (Ethics in Public Contracting); (ii) under Va. Code Section 18.2-498.1 et seq. (Va. Governmental Frauds Act); (iii) under Va. Code Section 59.1-68.6 et seq. (Conspiracy to Rig Bids); (iv) of a criminal violation of Va. Code Section 40.1-49.4 (enforcement of occupational safety and health standards); or (v) of violating any substantially similar federal law or law of another state

VI. DEBARMENT:

The following may be grounds for denying prequalification, at the agency's sole discretion, after review and consideration of the dates, facts and circumstances:

The contractor or any officer, director, project manager, procurement manager, chief financial officer, partner or owner of the construction company in the past ten (10) years: has been **debarred** by any agency or political subdivision of the Commonwealth of Virginia, by any agency of the United States or by any agency of another state.

Attachment 2
SURETY STATEMENT



San Francisco Branch
415 Howard Street, Floor 6, San Francisco, CA 94105

Emily L. Newell

Underwriter
CNA Surety
Telephone: 415-932-7171
Facsimile: 415-932-7188
E-Mail: Emily.newell@cna-surety.com

July 28, 2005

Dr. Paul B. Ferrara, PhD.
Department of Forensic Science
700 North Fifth Street
Richmond, Virginia 23219

RE: Pre-Qualification for **DPR Construction, Inc.**

To Whom It May Concern:

We are providing this information at the request of **DPR Construction, Inc.** for the purposes of seeking pre-qualification for the Northern Forensics/OCME Facility.

Name of Bonding Company/Surety:

Continental Casualty Company
405 Howard Street, 6th Floor
San Francisco, CA 94105

Name of Surety Agent/Broker:

Willis
1441 Main Street
Columbia, SC 29201

Continental Casualty Company is an admitted surety (approved by the Virginia State Corporation Commission) and authorized to issue surety bonds in the Commonwealth of Virginia. Continental Casualty Company is rated "A" by A.M. Best and is an approved surety on Federal bonds under Title 31 of the United States Code per U.S. Treasury Department Circular 570 effective, July 1, 2005.

Continental Casualty Company has been providing surety bonds for **DPR Construction, Inc.** since 2002. We have approved bonds for them covering single projects in excess of \$60,000,000 and potential aggregate work programs of \$150,000,000.

We continue to be confident in **DPR Construction, Inc.'s** ability to perform and we recommend them for your favorable consideration.

This letter is not to be construed as an agreement to provide surety bonds for any particular project, but it is offered as an indication of our past experience and confidence in this firm.

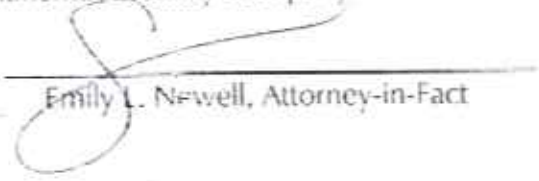
RF: Pre-Qualification for DPR Construction, Inc. -2-

July 28, 2005

Any specific request for bonds is a matter between **DPR Construction, Inc.**, and ourselves and we assume no liability to third parties if for any reason we do not execute said bond(s).

Continental Casualty Company

By:


Emily L. Newell, Attorney-in-Fact

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That Continental Casualty Company, an Illinois corporation, National Fire Insurance Company of Hartford, a Connecticut corporation, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania corporation (herein called "the CNA Companies"), are duly organized and existing corporations having their principal offices in the City of Chicago, and State of Illinois, and that they do by virtue of the signatures and seals herein affixed hereby make, constitute and appoint:

Paul A. Kitchell, Lillian G. White, Thelma D. Dulay, Emily L. Newell, Individually

of San Francisco, CA, their true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on their behalf bonds, undertakings and other obligatory instruments of similar nature:

- In Unlimited Amounts -

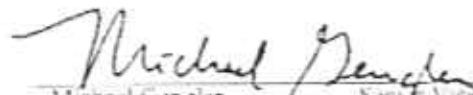
and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of their corporations and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Boards of Directors of the corporations.

In Witness Whereof, the CNA Companies have caused these presents to be signed by their Senior Vice President and their corporate seals to be hereto affixed on this 20th day of May, 2004.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

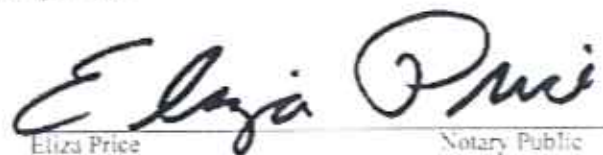

Michael Gengler Senior Vice President

State of Illinois, County of Cook, ss:

On this 20th day of May, 2004, before me personally came Michael Gengler to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Chicago, State of Illinois; that he is a Senior Vice President of Continental Casualty Company, an Illinois corporation, National Fire Insurance Company of Hartford, a Connecticut corporation, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania corporation described in and which executed the above instrument; that he knows the seals of said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed pursuant to authority given by the Boards of Directors of said corporations and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporations.



My Commission Expires September 17, 2006


Eliza Price Notary Public

CERTIFICATE

I, Mary A. Rinkawski, Assistant Secretary of Continental Casualty Company, an Illinois corporation, National Fire Insurance Company of Hartford, a Connecticut corporation, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania corporation do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the corporations printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporations this

28th day of July, 2005



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania


Mary A. Rinkawski Assistant Secretary

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT



For All the Commitments You Make[®]

State of California

County of San Francisco

On July 28, 2005 before me, Thelma D. Dulay, Notary Public
Date NAME, TITLE OF OFFICER, "JANE DOE, NOTARY PUBLIC"

personally appeared Emily L. Newell
NAME(S) OF SIGNER(S)

(☒) personally known to me – OR – (☐) proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Thelma D. Dulay
SIGNATURE OF NOTARY

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

- ☐ INDIVIDUAL
☐ CORPORATE OFFICER

- ☐ PARTNER(S) ☐ LIMITED
☐ GENERAL

- ☒ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☐ OTHER _____

DESCRIPTION OF ATTACHED DOCUMENT

Pre-Qualification Letter for DPR Construction, Inc.
Dr. Paul B. Ferrara, PhD.

TITLE OR TYPE OF DOCUMENT

Two Pages (2)
NUMBER OF PAGES

July 28, 2005
DATE OF DOCUMENT

SIGNER IS REPRESENTING:

NAME OF PERSON(S) OR ENTITY(IES)
Continental Casualty Company

No Other Signers
SIGNER(S) OTHER THAN NAMED ABOVE

Attachment 3
ADDITIONAL INFORMATION, IF ANY,
PROVIDED UNDER SECTIONS III, IV, V

Attachment 4
ADDITIONAL INFORMATION PROVIDED
UNDER SECTION VI

Relevant Local Projects - Last 5 Years

PROJECT	DESCRIPTION	\$M	COMPLETE	OWNER	ARCHITECT
The Institute for Genomic Research (TIGR) TIGR Building 5 Rockville, Maryland	122,000-sq.-ft. four-story genomic research facility. The project includes BL-2 wet labs, an 8,000 sf data center, offices, and a 400 to 500 space surface parking lot. Major site improvements to accommodate future expansion are also included. \$6M, 60,000-sq.-ft. buildout of general labs, BSL3 facility, and process suites for The Center for Advanced Genomics and the Institute for Biological Energy Alternatives. TIGR Building third floor tenant buildout.	\$33.00	Apr 2004	The Institute for Genomic Research (TIGR)	Leo A Daly
National Institutes of Health NIH Building 103 Addition and Renovation Dickerson, Maryland	Construction of a 22,000-sq.-ft. vivarium primate quarantine facility. The project consists of two ground-up wing additions to an existing and fully operational vivarium.	\$15.00	Jul 2004	National Institutes of Health	Kling
Hammes Company INOVA HEALTHPLEX Alexandria, Virginia	The Inova HealthPlex houses an ambulatory surgery center with four operating suites, a 24-hour emergency room and after-hours pediatric clinic, an Imaging center and a 80,000 square foot of medical office space.	\$19.96	Mar 2001	Hammes Company	Odell Associates, Inc.
Hammes Company Inova HealthPlex - Tenant Improvement Wave I Alexandria, Virginia	Fit up of ten tenants in medical office building The Inova HealthPlex houses an ambulatory surgery center with four operating suites, a 24-hour emergency room and after-hours pediatric clinic, an Imaging center and a 80,000 square foot of medical office space.	\$19.96	Mar 2001	Hammes Company	Odell Associates, Inc.
Hammes Company Inova HealthPlex Alexandria, Virginia	140,000-sq.-ft. two-story Ambulatory Surgery Center and three-story Medical Office Building built on 10.46 acres with parking and landscape	\$19.94	Mar 2001	Hammes Company	Odell Associates, Inc.
The Orr Company DNC Headquarters Renovations Washington, District of Columbia	Exterior and interior construction and improvements to the Democratic National Committee's Headquarters Building and to the Democratic Club Building (approx 57,600-sq.-ft. combined) and construction of a 2,500-sq.-ft. connecting bridge between the two buildings.	\$7.52	Jan 2004	The Orr Company	Hickok Warner Cole Architects
DeVRY Inc. DEVRY INSTITUTE of TECHNOLOGY - CRYSTAL CITY CAMPUS Arlington, Virginia	80,000-sq.-ft. renovation, including classrooms, labs, bookstore, and student and administrative services spaces	\$6.94	Jul 2002	DeVRY Inc.	The Phillips Group

Relevant Local Projects - Last 5 Years

PROJECT	DESCRIPTION	\$M	COMPLETE	OWNER	ARCHITECT
Hammes Company Hammes - Hampton River Medical Arts Building Hampton, Virginia	100,000-sq.-ft. four-story medical office building (aka Hammes Sentara CarePlex MOB). 4,000-sq.-ft. medical office space. There are 6 exam rooms, 2 bathrooms, several rooms designated as office space, lab, lounge, medical records space and spacious waiting area.	\$9.67	Feb 2003	Hammes Company	Lyall Design Architects
Turning Basin LLC The Turning Basin Richmond, Virginia	Five-story retail and office building with underground parking	\$9.74	Aug 2001	Turning Basin LLC	SMBW Architects, P.C.
IKEA Property, Inc. IKEA Potomac Mills Woodbridge, Virginia	New 600,000-sq.-ft. retail/warehouse building over a garage parking level	\$33.00	Sep 2001	IKEA Property, Inc.	mog architecture
Gene Logic, Inc. GENE LOGIC OFFICE & LAB Gaithersburg, Maryland	33,300-sq.-ft. fit out of laboratory, general office, and support space in 57,300-sq.-ft. existing building; potential for Phase II expansion	\$5.58	Feb 2001	Gene Logic, Inc.	Kling
Virginia Eye Institute Virginia Eye Institute (VEI) Ambulatory Surgery Center Richmond, Virginia	The 14,400-sq.-ft. single story ambulatory surgery center comprises six operating rooms, seven prep rooms, and seven exam rooms, as well as all associated support space.	\$3.43	Dec 2002	Virginia Eye Institute	Odell Associates, Inc.
International Campaign for Tibet (ICT) International Campaign for Tibet Renovation Washington, District of Columbia	Renovation to existing 2,800 sq. ft. historic row house with 3,400 sq. ft. addition in the rear on a tight urban site. Renovation to existing 2,800 sq. ft. historic row house with 3,400 sq. ft. addition in the rear on a tight urban site.	\$1.57	Sep 2004	International Campaign Sorg and Associates for Tibet (ICT)	
Inova Health System Inova Blood Services Sterling, Virginia	Tenant improvement to existing facility. Tenant improvement to existing facility.	\$1.55	Feb 2005	Inova Health System	
Constellation Energy Group, Inc. Creative Media/Hot Site Baltimore, Maryland	1200 sf Studio, office and Operations Center-TI	\$1.05	Apr 2005	Constellation Energy Group, Inc.	Cochran, Stephenson & Donkervoet, Inc.

Current Local Projects

PROJECT	DESCRIPTION	\$M	COMPLETE	OWNER	ARCHITECT
Packard Humanities Institute Library of Congress (LOC) - National Audio-Visual Conservation Center (NAVCC) Culpeper, Virginia	Preconstruction and construction services for the complete renovation of a decommissioned underground federal reserve facility and the construction of five additional buildings to house and conserve the national audio and visual archive for the Library of Congress and other supporting facilities on this campus. This project will have a complete new green roof system both as part of the renovated areas, and new areas of approximately 229,984 SF or almost 5.5 acres.	\$120.00	Apr 2006	Packard Humanities Institute	SmithGroup
The Orr Company US Pharmacopeia Consolidation Project Rockville, Maryland	Consolidation Project including 150,000-sq.-ft. underground garage, 157,000-sq.-ft. space including 50,000-sq.-ft. analytical and wet labs, 57,000 sq. ft. of office space, 19,000-sq.-ft. conference center and warehouse space.	\$48.00	Sep 2006	The Orr Company	
Trammell Crow Company Capitol Square - Master Project Richmond, Virginia	This two phased project involves the renovation and addition to the historic Finance Building (50,000 sq. ft. renovation to a building dating from the late 1800's including a \$1M abatement package and a 50,000 sq. ft. addition) and the renovation of the 14-story Washington Building all on the Capitol Square in downtown Richmond.	\$33.20	Dec 2006	Trammell Crow Company	Ballou Justice Upton Architects
Aramark William and Mary-Commons Dining Renovation Williamsburg, Virginia	30,000-sq.-ft. student dining center addition and renovation.	\$6.00	Aug 2005	Aramark	MMM Design Group
Northrop Grumman Northrop Grumman TASC - Colshire McLean, Virginia	Two-floor, 55,000 sq. ft. mission critical facility for Northrop Grumman TASC.	\$5.40	Sep 2005	Northrop Grumman	
Northrop Grumman Northrup Grumman Falls Church TI Falls Church, Virginia	70,000sf Tenant improvement on multiple floors	\$4.50	Oct 2005	Northrop Grumman	Beery, Rio & Associates
Constellation Energy Group, Inc. OMF Expansion Owen Mills, Maryland		\$3.20	Aug 2005	Constellation Energy Group, Inc.	
Virginia Lutheran Homes Brandon Oaks Roanoke, Virginia	40 Senior Living Units (75% are Senior Living and 25% are Assisted Living) constructed on existing campus in Roanoke, Virginia.	\$2.50	Nov 2005	Virginia Lutheran Homes	
Culpeper Regional Hospital Culpeper Hospital Near Term Capital Projects Culpeper, Virginia		\$2.00	Nov 2005	Culpeper Regional Hospital	

Current Local Projects

PROJECT	DESCRIPTION	\$M	COMPLETE	OWNER	ARCHITECT
Centex Concord Children's Choice Learning Center	Ground up Children's Day Care Center	\$1.70	Dec 2005	Centex Concord	
BioReliance BioReliance-Cell Banking Team Rooms Frederick, Maryland	4 each 500sf Class 10K Clean rooms	\$1.30	May 2005	BioReliance	
Jacobs Facilities, Inc. DOT Program Management Washington, District of Columbia	Preconstruction services and Change order management as a subcontractor to Jacobs Facilities at DPR rates over a 4 year construction project in Washington DC. The project is a 1.7 Million SF, \$300 Million, office and garage project for the Dept of Transportation/GSA Project Management for New Headquarters in the South East Federal Center.	\$1.17	Sep 2007	Jacobs Facilities, Inc.	
Constellation Energy Group, Inc. Creative Media/Hot Site Baltimore, Maryland	1200 sf Studio, office and Operations Center-TI	\$1.05	Apr 2005	Constellation Energy Group, Inc.	Cochran, Stephenson & Donkervoet, Inc.

**TROUTMAN
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ATTORNEYS AT LAW

Sandra Jones McNinch

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PRACTICE AREAS

- ☐ Municipal Bonds
- ☐ Securities
- ☐ Banking

EDUCATION

Marshall-Wythe School of Law, William & Mary (J.D., 1980)
Order of the Coif
Michigan State University (B.A., Criminal Justice, 1977)

PREVIOUS EXPERIENCE

Law Clerk to the Honorable Ted Dalton, United States District Court for the Western District of Virginia, 1980-1981
Business Development Finance Manager, Virginia Economic Development Partnership, 2000-2002

BAR AND COURT ADMISSIONS

Virginia, 1980
U. S. District Court for the Eastern District of Virginia and Western District of Virginia
U. S. Court of Appeals for the Fourth Circuit

BAR ACTIVITIES AND LEGAL ASSOCIATIONS

National Association of Bond Lawyers
Local Government Attorneys of Virginia, Inc.
Virginia Government Finance Officers Association
Virginia Economic Developers Association
Board of Governors, Local Government Law Section, Virginia State Bar

RATINGS

Sandi McNinch has achieved Martindale-Hubbell's highest rating for legal ability and ethical standards.

REPRESENTATIVE ENGAGEMENTS

Representation of issuers, borrowers, underwriters, credit providers, trustees and other capital market participants in tax-exempt and taxable debt transactions

Participated in financings for a wide range of projects, including educational facilities, correctional facilities, environmental and recreational facilities, commercial and industrial facilities, transportation facilities and healthcare facilities.

Acted on the state level as bond counsel to the Commonwealth of Virginia, the Virginia College Building Authority, the Commonwealth Transportation Board, the University of Virginia, Virginia Polytechnic Institute and State University and Eastern Virginia Medical School.

Served as bond counsel or underwriters counsel for a number of financings for regional authorities formed to provide utility services, convention facilities or correctional facilities.

Provided bond counsel services to a variety of local government entities, including cities, counties, towns, industrial development authorities, public service authorities and housing authorities.

As the former Business Development Finance Manager for the Virginia Economic Development Partnership, participated in the structuring of financings for a variety of economic development projects across the Commonwealth.

ARTICLES

Co-Author, "Tax Exempt Financing of Hospital Facilities and Medical Office Buildings,"
Perspective, Virginia Hospital Association

"Tax Exempt Municipal Leasing," *Virginia Review, Virginia Association of Counties*

"Use of Bond Proceeds for Reimbursement Purposes for Capital Projects," *Virginia Review,*
Virginia Association of Counties

"Top Five Things to Remember About Industrial Development Bonds," *Vanguard*

"Income Tax Credit Available for Qualified Investors," *Vanguard*

"Using a Local Enterprise Zone as an Economic Development Tool," *Commerce Quarterly*

"Opportunities and Challenges in Using the Public-Private Education Facilities and Infrastructure
Act of 2002," *Journal of Local Government Law*

PRESENTATIONS

Anatomy of a Bond Issue

Powers of Industrial Development Authorities

Debt Financing Options for Economic Development Projects

Virginia's Public-Private Education Facilities and Infrastructure Act of 2002

Tax Credits to Support Biotechnology

Economic Development Initiatives in Virginia: A Local Practitioner's Handbook

PUBLIC SERVICE

Member, Board of Directors, MSU Alumni Club of Virginia (Eastern)

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PRACTICE AREAS

- ☐ Products Liability Defense
- ☐ Transportation Litigation
- ☐ Complex Litigation

EDUCATION

Washington and Lee University (B.A., *magna cum laude*, 1985)
Phi Beta Kappa
Fellowship, Rotary International, Monash University, Melbourne, Australia, 1986
University of Virginia (J.D., 1990)

BAR AND COURT ADMISSIONS

Virginia, 1990
Virginia Supreme Court, 1990
United States District Court (Eastern District of Virginia), 1990
United States Bankruptcy Court (Eastern District of Virginia), 1990
United States Court of Appeals, Fourth Circuit, 1990
United States District Court (Western District of Virginia), 1994

PROFESSIONAL ACTIVITIES AND ASSOCIATIONS

American Trucking Association
Transportation Lawyers' Association
Association for Transportation Law, Logistics and Policy
Defense Research Institute
The American Bar Association, Toxic Torts & Environmental Litigation Committee
TIPS – Toxic & Hazardous Substance & Environmental Law Committee
Virginia Association of Defense Attorneys Member, Legislative Committee

REPRESENTATIVE ENGAGEMENTS

Represents national transportation companies and manufacturers in toxic tort litigation involving claims of exposure to asbestos, lead, diesel fumes and silicosis.

Lead attorney for Troutman Sanders' Tobacco Indemnification Settlement Program. Oversees

Virginia's distribution of monies from the Master Settlement Agreement to indemnify tobacco quota owners and producers for losses sustained from the reduction of the production of tobacco.

Represents national manufacturers in products liability claims involving catastrophic loss, death and/or injury.

Has tried over 30 cases to jury verdict in the past five years.

Has tried more than 50 cases to verdict.

PUBLICATIONS

Co-author, "EPA's Health Assessment for Diesel Exhaust", *Journal of Transportation Law, Logistics and Policy*, Volume 71, Number 2, Winter 2004

Co-author, "Some Thoughts on Experiences with the PPEA," *Journal on Local Government Law*, Virginia State Bar Local Government Law Section

Co-author, "Think Ahead to Avoid Retro Policy Pitfalls," *Business Insurance*, December 4, 1995

Author, "Race-Neutral Peremptory Strikes," *Virginia State Bar Litigation News*, vol. II, no. 1, Spring 1995

PUBLIC SERVICE

Distinguished Military Graduate, 1985
Captain, United States Army Reserve, 1985-1993

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PRACTICE AREAS

- Practice includes governmental law, legislative and regulatory matters with an emphasis on telecommunications, alcoholic beverages, healthcare and insurance issues. Representation of clients before the Virginia General Assembly and state agencies.

EDUCATION

Virginia Military Institute (B.A. with distinction, 1983)
T.C. Williams School of Law, University of Richmond (J.D., 1986)
Phi Delta Phi
Member, Moot Court Board
McNeill Law Society

BAR AND COURT ADMISSIONS

Virginia, 1986

BAR ACTIVITIES AND LEGAL ASSOCIATIONS

American Bar Association
Richmond Bar Association
Virginia Bar Association
Virginia Association of Defense Attorneys
Central Virginia Chapter of the Community Associations Institute (President, 1990-1991)

PRESENTATIONS

Numerous presentations to trade and professional associations on legislative issues including healthcare and telecommunications

Participation in several continuing legal education panels on legislative and regulatory practice

PUBLIC SERVICE

VMI Club of Richmond (Treasurer, 1991-1992)

REPRESENTATIVE ENGAGEMENTS

Represented a statewide homebuilder association in development of new mechanic's lien law in response to carriers leaving the market.

Represented telecommunications companies in enacting Virginia's telephone deregulation legislation and subsequent legislation on rights-of-way access and municipal competition.

Represented cable and telecommunications companies before various city governments on franchise issues.

Represented a managed care company in overturning restrictive managed care regulations and redrafting more industry friendly proposals.

Represented a national insurance industry trade association in implementing Graham Leach Bliley in Virginia.

Represented a professional medical association in amendments to malpractice cap legislation.

Represented a motor vehicle database customer in negotiations with DMV Commissioner for access to motor vehicle data.

RATINGS

Named to *Virginia Business* magazine's Legal Elite in legislative and regulatory law (2003, 2004).